Office Network Solutions Catalog
Asia

Featuring **AMP NETCONNECT** Product Portfolio

TE connectivity

Contents

1. Unshielded Twisted Pair (UTP) Cabling Systems

2. Shielded Twisted Pair (STP) Cabling Systems

3. Fiber Optic (FO) Cabling Systems

4. Ethernet LAN Solutions

5. Universal Outlets/Faceplates (unpopulated)

6. Cable Management

7. Tools & Labeling

8. Video Distribution System

1. Unshielded Twisted Pair (UTP) Cabling Systems

Unshielded Twisted Pair (UTP) Cabling Systems
System Cables (Horizontal)

Cat. 6 U/UTP 400 MHz Cable

FEATURES:

- 400 MHz Cat. 6 U/UTP Cable

- Qualified against IEC 61156-5 Cat. 6, EN 50288-6-1 and TIA-568C.2

- Cross web filler to separate the pairs

- AWG 23

-Y	Color
-2	White
-4	Grey
-6	Blue
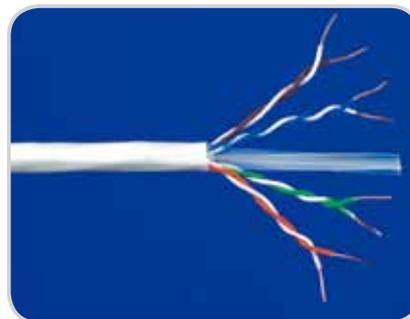
ORDERING INFORMATION

Sheathing	Type	OD	Packaging	Part Number
CM	Simplex	6.4 mm	305 m Reel In Box	1747834-Y

Cat. 6 U/UTP 250 MHz Cable

FEATURES:

- 250 MHz Cat. 6 U/UTP Cable

- Qualified against IEC 61156-5 Cat. 6, EN 50288-6-1 and TIA-568C.2

- Cross web filler to separate the pairs

- AWG 23, unless otherwise specified

Color: White, unless otherwise specified by "-Y"
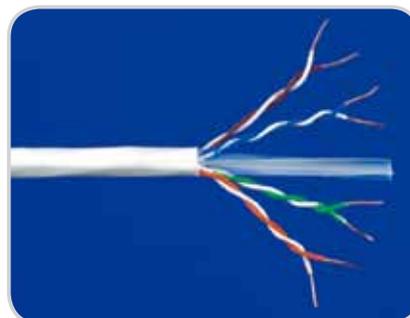
ORDERING INFORMATION

Sheathing	Type	OD	Packaging	Part Number
PVC	Simplex	6.0 mm	see table	219584-X
LSZH	Simplex	6.0 mm	see table	219585-X
LSFRZH	Simplex	6.3 mm	500 m/Reel	1-1711166-7
LSZH	Duplex	6.2 x 13.0 mm	500 m/Reel	1711053-1
CMR	Simplex	6.4 mm	1000 ft Reel In Box	9-1427200-Y
CMR	Simplex	6.4 mm	305 m Reel In Box	6-1427222-Y
CM	Simplex	6.4 mm	305 m Reel In Box	1427254-Y
CM	Simplex	5.6 mm (AWG24)	305 m Reel In Box	1427071-Y

-X	Packaging
-2	305 m, Reel-In-A-Box
-3	1000 m, Reel

-Y	Color
-2	White
-3	Green
-4	Grey
-6	Blue

Unshielded Twisted Pair (UTP) Cabling Systems
System Cables (Horizontal)

Cat. 5e U/UTP 100 MHz Cable

FEATURES:

- 100 MHz Cat. 5E U/UTP Cable

- AWG 24

Color: White
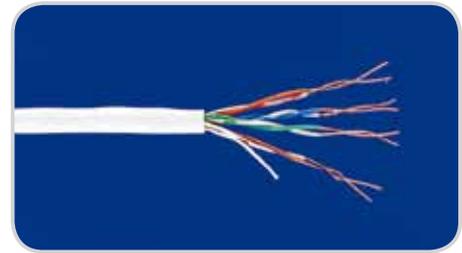
ORDERING INFORMATION

Sheathing	Type	OD	Packaging	Part Number
PVC	Simplex	5.1 mm	see table	57535-X
LSZH	Simplex	5.1 mm	see table	57538-X
LSZH	Duplex	5.5 x 11.5 mm	500 m/Reel	1711043-1
CM	Simplex	4.9 mm	305 m/Pull Box	6-219590-Y
CMR	Simplex	5.1 mm	1000 ft/Pull Box	6-57826-Y
CM	Simplex	5.1 mm	1000 ft/Pull Box	6-219507-4*
CM	Simplex	4.9 mm	1000 ft/Pull Box	6-219586-Y*
PVC	Simplex	4.9 mm	200 m/Pull Box	2-1427260-Y
PVC	Simplex	4.9 mm	305 m/Pull Box	1427260-Y

-Y	Color
-2	White
-4	Grey
-6	Blue
-8	Yellow

-X	Packaging
-2	305 m, Pull-Box
-3	1000 m, Reel

*For PRC market only.

EtherSeal Cat. 5e U/UTP 100 MHz Cable

FEATURES:

- Exceeds TIA-568-C Enhanced Cat. 5 and ISO/IEC 11801:2002 Class D specifications

- Exceeds all requirements for Gigabit Ethernet

- Sunlight (UV) resistant for harsh environments

- Oil resistant, Level II

- Double jacketed – PVC

- CMR (Riser) rated

- AWG 24

Color: Grey

ORDERING INFORMATION

Sheathing	OD	Packaging	Part Number
Solid conductors	6.4 mm	305 m/Reel	1499447-3
Stranded conductors	6.6 mm	305 m/Reel	1499448-3

25 Pair Cat. 5e PowerSum Backbone Cable

FEATURES:

- Cat. 5E UTP Backbone Cable
- AWG 24
- UL listed
- 25 Pair construction

Color: White
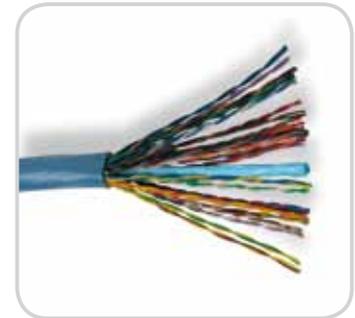
ORDERING INFORMATION

Sheathing	OD	Packaging	Part Number
CMR	13.0 mm	1000 ft/Reel	1499418-1
LSZH	13.0 mm	1000 ft/Reel	1427278-1

Multi-Pair Cat. 3 Backbone Cable

FEATURES:

- Cat. 3 Telephone Backbone Cable
- AWG 24

Color: grey
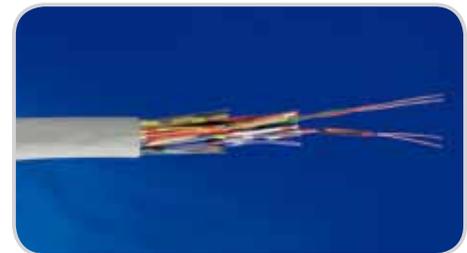
ORDERING INFORMATION

No. of Pairs	Sheathing	OD	Packaging	Part Number
25	LSZH	8.3 mm	305 m/Reel	9-1427315-1
50	LSZH	15.0 mm	1000 ft/Reel	9-1427250-1
100	LSZH	25.0 mm	305 m/Reel	9-1427251-1
25	CMR	10.0 mm	1000 ft/Reel	9-57242-1
50	CMR	15.0 mm	1000 ft/Reel	9-57313-1
100	CMR	20.00 mm	1000 ft/Reel	9-57315-1

Cat. 6 SL Series Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 6 component performance requirements

- Ports may be individually replaced

- Packaged unloaded with jacks bagged separately for termination with SL Series Jack Termination Tool

- Universal wiring — may be terminated to T568A or T568B

- 12-Port Mini Patch Panels mount vertically on 89D bracket (included)

Color: Black

ORDERING INFORMATION

Description	Height	Width	Figure	Part Number
12-Port	10.00″	2.3″	A	1375013-2
24-Port	1U (1.75″)	19.0″	–	1-1375014-3*
24-Port	1U (1.75″)	19.0″	–	1933796-2
48-Port	2U (3.50″)	19.0″	B	1375015-2
48-Port	2U (3.50″)	19.0″	B	1933797-2
96-Port	4U (7.00″)	19.0″	–	1375016-2

*For Korean market only.

Cat. 6 Angled SL Series Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 6 component performance requirements

- Allow elimination of horizontal cable management for higher rack densities and ease of cable dress

- Ports may be individually replaced

- Packaged unloaded with jacks bagged separately for termination with SL Series Jack Termination Tool

- Universal wiring — may be terminated to T568A or T568B

Color: Black

ORDERING INFORMATION

Description	Height	Width	Figure	Part Number
24-Port	1U (1.75″)	19.0″	A	1933798-2
48-Port	2U (3.50″)	19.0″	B	1933799-2

Cat. 6 Compact Patch Panel

FEATURES:

- 19″ RJ-45 patch panel with 24 ports on 0,5 U

- Half size compact design

- Strain relief, VDE grounding bolt and cable management

- Universal wiring – T568 A or B wiring pattern

- Protected PCB

ORDERING INFORMATION

Description	Color	Part Number
19" RJ-45 patch panel	black (RAL 9005)	1711544-2
19" RJ-45 patch panel	grey (RAL 7035)	1711544-4

Cat. 5e Angled SL Series Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 5e/Class D component performance requirements

- Allow elimination of horizontal cable management for higher rack densities and ease of cable dress

- Ports may be individually replaced

- Packaged unloaded with jacks bagged separately for termination with SL Series Jack Termination Tool

- Universal wiring — may be terminated to T568A or T568B

Color: Black

ORDERING INFORMATION

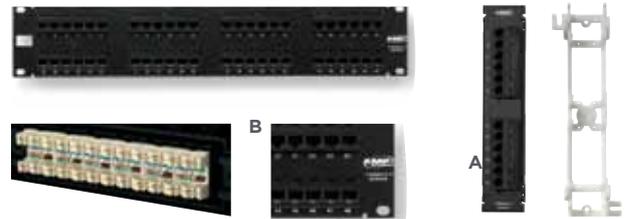| Description	Height	Width	Figure	Part Number
24-Port	1U (1.75″)	19.0″	A	1499602-2
48-Port	2U (3.50″)	19.0″	B	1499603-2

TE connectivity

Cat. 5e SL Series Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 5e/Class D component performance requirements

- Ports may be individually replaced

- Packaged unloaded with jacks bagged separately for termination with SL Series Jack Termination Tool

- Universal wiring — may be terminated to T568A or T568B

- 12-Port Mini Patch Panels mount vertically on 89D bracket (included)
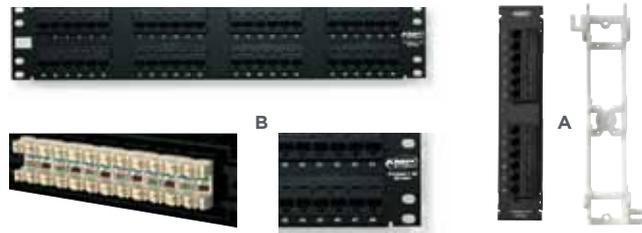
ORDERING INFORMATION

Description	Height	Width	Figure	Part Number
12-Port	10.00″	2.3″	A	1479153-2
24-Port	1U (1.75″)	19.0″	–	1479154-2
48-Port	2U (3.50″)	19.0″	B	1479155-2
96-Port	4U (7.00″)	19.0″	–	1479156-2

Cat. 5e 110Connect Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 5e/Class D component performance requirements

- May be terminated using single-wire or 5-pair tools

- Universal wiring — may be terminated to T568A or T568B

- 12-Port Mini Patch Panels mount vertically on 89D bracket (included)
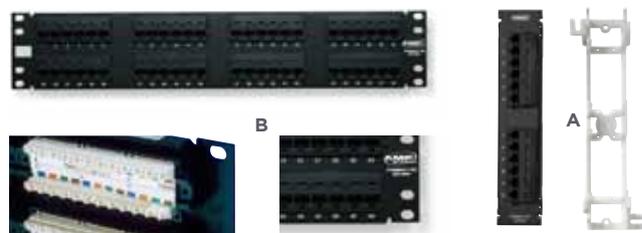
ORDERING INFORMATION

Description	Height	Width	Figure	Part Number
12-Port	10.00″	2.3″	A	406390-1
12-Port	1U (1.75″)	19.0″	—	406981-1
24-Port	1U (1.75″)	19.0″	—	406330-1
24-Port	1U (1.75″)	19.0″	—	1-406330-3*
48-Port	2U (3.50″)	19.0″	B	406331-1
96-Port	4U (7.00″)	19.0″	–	406332-1

*For Korea market only.

Cat. 5e Angled 110Connect Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 5e/Class D component performance requirements

- Allow elimination of horizontal cable management for higher rack densities and ease of cable dress

- May be terminated using single-wire or 5-pair tools

- Universal wiring — may be terminated to T568A or T568B

ORDERING INFORMATION

Description	Height	Width	Figure	Part Number
24-Port	1U (1.75″)	19.0″	A	1499604-1
48-Port	2U (3.50″)	19.0″	B	1499605-1

Multimedia SL Series Patch Panels (unloaded)

FEATURES:

- Accepts AMP-TWIST, shielded, and unshielded SL Series Jacks and inserts

- May be used to create custom configurations – including mixing fiber, twisted-pair, coax and A/V applications

- Ports may be individually replaced

- Angled versions allow elimination of horizontal cable management for higher rack densities and ease of cable dress

ORDERING INFORMATION

Description	Height	Width		Figure	Part Number
12-Port	1U (1.75″)	19.0″	Straight	–	1933412-1
24-Port	1U (1.75″)	19.0″	Straight	–	1933307-1
			Angled	–	1933309-1
48-Port	2U (3.50″)	19.0″	Straight	A	1933308-1
			Angled	B	1933310-1

TE connectivity

Unshielded Twisted Pair (UTP) Cabling Systems
Patch Panels

UCP Patch Panel Angled and Flushmount

FEATURES:

- 19" 1U unloaded modular patch panel with 4 UCP cutouts
- Angled and flush style panels available
- Modular rear cable bracket to manage and bundle different media cabling
- Accepts Pre-terminated Cu or FO cassettes or Field terminated Cu or FO modules
- Including grounding bolt

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
UCP Patch Panel 1U Angled	1-1671590-1
UCP Patch Panel 1U Flush	1-1671594-1

Cat. 3 Patch Panels

FEATURES:

- Meets or exceeds TIA and ISO Cat. 3 component performance requirements
- Available in 2- through 3 -pair for voice and low speed data applications
- Fit standard 19" racks

ORDERING INFORMATION

Description	Height	Wiring Pattern	Part Number
24-Port	1U (1.75")	RJ25C (3-Pair)	558257-1
		RJ14C (2-Pair)	557403-1
48-Port	2U (3.50")	RJ25C (3-Pair)	558258-1
		RJ14C (2-Pair)	557411-1
96-Port	4U (7.00")	RJ25C (3-Pair)	558259-1
		RJ14C (2-Pair)	557415-1

Cat. 3 25 Port Telephone Patch Panel

FEATURES:

- 19", 1 U, telephone panel with 25 ports

- Active Pin-out: 36,45

- Conductor diameter range from AWG 26–23 (0,4–0,6 mm)

ORDERING INFORMATION

Description	Part Number
25 port economy telephone panel	1711213-X

- X	Color
-2	Black (RAL 9005)
-3	Light Grey (RAL 7035)

Cat. 3 50 Port Telephone Patch Panel

FEATURES:

- 19" , 1 U, telephone panel with 50 ports

- Active Pin-out: 36,45

- Conductor diameter range from AWG 26–23 (0,4–0,6 mm)

ORDERING INFORMATION

Description	Part Number
50 port economy telephone panel	1711214-X

- X	Color
-2	Black (RAL 9005)
-3	Light Grey (RAL 7035)

Cat. 3 AMPTRAC Ready! 50 Port Telephone Patch Panel

FEATURES:

- 19" , 1 U, telephone panel with 50 ports

- AMPTRAC *Ready!* high-end version

- Active Pin-out: 36,45

- Conductor diameter range from AWG 26–22 (0,4–0,65 mm)

- Easy upgrade to AMPTRAC Infrastructure Management

- Rear cable management for multipair cables

- 110Connect blocks for conductor insulation diameters up to 1,28 mm
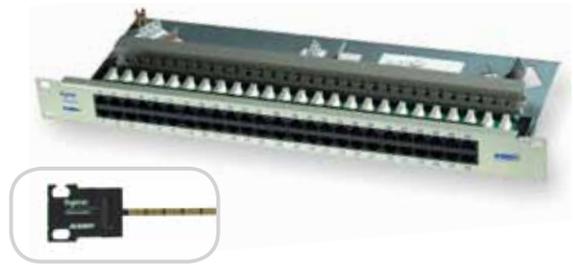
- X	Color
-1	Light Grey (RAL 7035)
-2	Black (RAL 9005)
-4	Green (RAL 6032)

ORDERING INFORMATION

Description	Part Number
AMPTRAC Ready! 50 port panel	1394060-X
I/O upgrade kit to full AMPTRAC	1435954-1

Flushmount Modular Patch Panel (unloaded)

FEATURES:

- 19" 1 U unloaded flushmount panel to be equipped with different SlimLine jacks

- Including grounding bolt

- AMPTRAC functionality not applicable for jacks with dustcover

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Flushmount Modular Panel	1-1671183-1
Flushmount Full AMPTRAC Modular Panel	1-1671187-1

Flushmount Standard Patch Panel (unloaded)

FEATURES:

- 19" Standard unloaded flushmount panel to be equipped with different SlimLine jacks

- Including grounding bolt

- Holds up to 24 SL jacks

- Ports are iconable

ORDERING INFORMATION

Description	Height	Part Number
24 port panel	1 U	336526-X

- X	Color
-1	Black (RAL 9005)
-4	Light Grey (RAL 7035)

Discrete High Density Angled SL Series Patch Panel (unloaded)

FEATURES:

- Accepts AMP-TWIST, shielded, and unshielded SL Series Jacks and inserts (purchased separately)

- Highest density solution for 2U (3.50″)

- Ports may be individually replaced

- Angled version allow elimination of horizontal cable management for higher rack densities and ease of cable dress

Color: Black

ORDERING INFORMATION

Description	Height	Width	Part Number
72-Port Discrete Angled Panel	2U (3.50″)	19″	1499613-1

Unshielded Twisted Pair (UTP) Cabling Systems
Patch Panels

Modular Patch Panel with Shutter (unloaded)

FEATURES:

- 19″ 1U unloaded patch panel to be equipped with SlimLine jacks

- Holds up to 24 SL jacks

- Optional rear cable support bar (sold separately)

Color: Black

A

B

ORDERING INFORMATION

Description	Figure	Part Number
Angled Patch Panel with Shutter (for Un-shielded solution)	A	1859181-1
Straight Patch Panel with Shutter (for Un-shielded solution)	B	1427016-2
Rear Cable support bar	–	84841-1

110Connect Modular Jack Patch Panels (unloaded)

Unshielded

Shielded

FEATURES:

- Unshielded patch panels accept unshielded 110Connect and Inserts for 110Connect Modular Jack Patch Panels

- May be used to create custom configurations

- Ports may be individually replaced

Color: Black (RAL 9005)
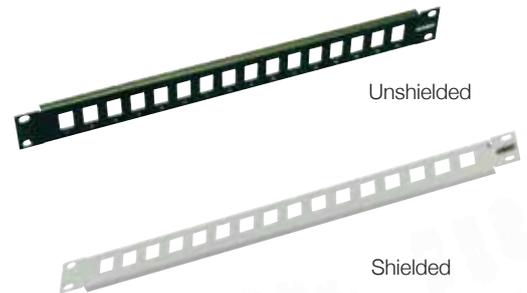
ORDERING INFORMATION

Description	Height	Width	Part Number
16-Port	1U (1.75″)	19.0″	557429-1
32-Port	2U (3.50″)	19.0″	557430-1
48-Port	3U (5.25″)	19.0″	557431-1

Cable Support Bars

FEATURES:

- Designed to provide additional cable support and routing control in the rear of 19″ racks and panels

- Cable support bars that mount directly to rack provide the best support - other bars are available for specialty applications
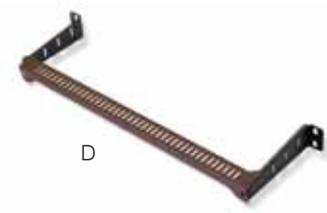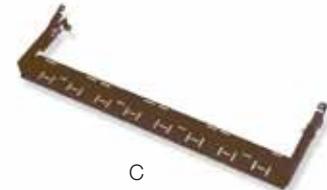
Color: Black

ORDERING INFORMATION

Description	Figure	Compatible with Panel	Part Number
Mounts to back of rack, 5″ deep	A	(mounts to rack)	557548-1
Mounts to back of rack, 2″ deep	B	(mounts to rack)	406042-1
Mounts to rear of XG and SL Multimedia Patch Panels, 1U	C	1933307, 1933309, 1933319, 1933321, 1933331, 1933323	1933425-1
Cable Management Bar, 6″ deep	D	(mounts to rack)	1933352-1
Cable Management Bar, 9″ deep	–	(mounts to rack)	1933352-2
Cable Management Bar, 12″ deep	–	(mounts to rack)	1933352-3
Cable Management Bar, 16″ deep	–	(mounts to rack)	1933352-4

Cover for Angled Patch Panels

PART NUMBER 1499614-1

FEATURES:

- For use with angled patch panels

- Protects cabling from dust and damage

- Compatible with: 1499600, 1499601, 1499602, 1499603, 1499604, 1499605, 1933321, 1933322, 1933309, 1933310, 1499613, 1933333, 1933334, 1933329, 1933330, 1933325, 1933326 panels

TE connectivity

Unshielded Twisted Pair (UTP) Cabling Systems
Patch Panels

Blank Panels

FEATURES:

- Standard 19″ length panels are designed for use in filling equipment rack voids
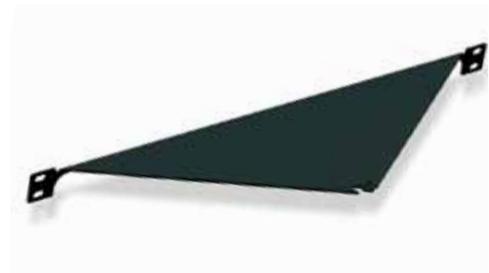
ORDERING INFORMATION

Description	Part Number
1U (1.75″)	556965-1
2U (3.50″)	556965-2
3U (5.25″)	556965-3
4U (7.00″)	556965-4
5U (8.75″)	556965-5

Discrete Lan/Voice Patch Panel

FEATURES:

- Patch panel is unloaded

- Rear cable management bar included

- Only supports LAN+Voice modular jacks part no. 1427077-X (see below)

Color: Black

ORDERING INFORMATION

Description	Part Number	Number of Ports	Height (inches)	Width (Inches)
JMO Patch Panel	1859000-1	16	1.75 (1U)	19

Lan+Voice Modular Jack

FEATURES:

- Each jack supports one 6-position RJ-11 port for voice application and one 8-position RJ-45 port for LAN application

- LAN support for 10/100 Base-T

- Terminated with 4-pair balanced cable supporting shared sheath applications

- Only fits JMO Patch panel part no. 1859000-1 (see above) and general National power faceplate.

ORDERING INFORMATION

Description	Part Number
LAN+Voice Modular Jack	1427077-X

- X	Color
-1	Almond
-2	Black

MRJ21 Snap-In Cassette, Unshielded

FEATURES:

- High-performance TP cabling for guaranteed application performance

- High-density, small form factor connectivity

- Factory terminated and tested solution

- Modular, pluggable solution

- Application specific cassettes

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ45 Ports	Part Number
Snap-In cassette for 100Base-T	1	12	1479452-1
Snap-In cassette for 1000Base-T	1	6	1479459-1
190 frontplate panel 1 U for 3 cassettes	–	–	1479451-1

MRJ21 Patch Panel, 1 U, Straight, Unshielded

FEATURES:

- High-performance copper cabling for guaranteed application performance

- High-density, small form factor copper connector interface

- Straight panel with 24 or 48 ports on 1 U

- Available with AMPTRAC functionality

- Factory terminated and tested solution

- Modular, pluggable solution

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ45 Ports	Part Number
Standard straight panel for 1000Base-T	4	24	1777029-1
AMPTRAC straight panel for 1000Base-T	4	24	1777029-2
Standard straight panel for 100Base-T	4	48	1435965-1
AMPTRAC straight panel for 100Base-T	4	48	1777042-1
Standard straight panel for 1000Base-T	8	48	1435971-1
AMPTRAC straight panel for 1000Base-T	8	48	1777041-1

Unshielded Twisted Pair (UTP) Cabling Systems

MRJ21 Patch Panel, 1 U, Angled

FEATURES:

- High-performance TP cabling for guaranteed application performance

- High-density, small form factor copper connector interface

- Angled panel with 48 ports on 1 U (protrusion: 140 mm)

- Available with AMPTRAC functionality

- Factory terminated and tested solution

- Modular, pluggable solution

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ45 Ports	Part Number
Standard angled panel for 1000Base-T	8	48	1777052-1
AMPTRAC angled panel for 1000Base-T	8	48	1777053-1

Hi-D MRJ21 Angled Patch Panel

FEATURES:

- High-performance TP cabling for guaranteed application performance

- High-density, small form factor copper connector interface

- Angled panel with 48 ports on 1 U

- Factory terminated and tested solution

- Modular, pluggable solution

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ45 Ports	Part Number
Hi-D MRJ21 panel for 1000Base-T	8	48	1-1671143-1

1. Unshielded Twisted Pair (UTP) Cabling System

MRJ21 to MRJ21 Cable Assemblies, Unshielded

FEATURES:

- Factory terminated and tested solution

- Modular, pluggable solution

- Dense CHAMP style double blade design with offset jackscrew

- Contact layout and footprint for differential pairs creates reduced crosstalk and built-in compension

- 1.5 to 4 times the port density of 2 x 6 Stacked Mod Jack (RJ-45)

- 3 times the port density of an RJ-21

- Jackscrew for positive latching and secure cable retention

- Reduced Diameter option for better cable management

- Ultra Slim option for better cable management

Color: Grey

Y - X	Length		Y - X	Length
0- -5	5.0 m		3- -0	30.0 m
1- -0	10.0 m		3- -5	35.0 m
1- -5	15.0 m		4- -0	40.0 m
2- -0	20.0 m		5- -0	50.0 m
2- -5	25.0 m			

Other lengths on request!

ORDERING INFORMATION

Description	Part Number
MRJ21 to MRJ21, 180° back shell	Y-2111366-X
MRJ21 to MRJ21, Ultra Slim, 180° back shell	Y-2111367-X*
MRJ21 to MRJ21, 45° black shell	Y-2111371-X

*Max recommended length: 30 meters.

MRJ21 Fanout Cable to Multiple RJ-45 Plugs

FEATURES:

- Factory terminated and tested solution

- Modular, pluggable solution

- Dense CHAMP style double blade design with offset screw fixing

- Contact layout and footprint for differential pairs creates reduced crosstalk and built-in compensation

- 3 times the port density of an RJ-21

- Jackscrews for positive latching and secure cable retention

Color: Grey

Y - X	Length		Y - X	Length
0- -5	5.0 m		3- -0	30.0 m
1- -0	10.0 m		3- -5	35.0 m
1- -5	15.0 m		4- -0	40.0 m
2- -0	20.0 m		5- -0	50.0 m
2- -5	25.0 m			

Other lengths on request!

ORDERING INFORMATION

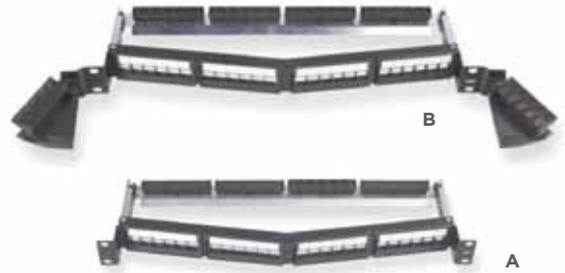| Description	Part Number
MRJ21 to 6 RJ-45 for 1000Base-T, 180° back shell	Y-2111370-X
MRJ21 to 12 RJ-45 for 100Base-T, 180° back shell	Y-2111373-X

TE connectivity

Unshielded Twisted Pair (UTP) Cabling Systems
Hi-D Patch Panels

Hi-D 1U Modular Panel (unloaded)

FEATURES:

- 19" 1U angled modular patch panel
- Adjustable & removable rear cable bracket incl.
- Easy to use cable organizing CaRe-clips
- Hi-DXT includes cable managers
- 4 universal cutouts
- Available with AMPTRAC functionality
- Jacks sold separately (see pages 27-29)

ORDERING INFORMATION

Description	Figure	Part Number
Hi-D modular panel UTP	A	1-1671157-1
Hi-D AMPTRAC modular panel UTP	–	1-1671136-3
Hi-DXT modular panel UTP	B	1-1671158-1

Hi-D 1U Blind Panel

FEATURES:

- 1U blind panels
- Angled version to leave a space
  in between Hi-D panels
- Straight versiopn to fill space between Hi-D
  panels and straight panels or active equipment

ORDERING INFORMATION

Description	Figure	Part Number
Hi-D 1U blind panel angled	A	1671113-1
Hi-D blind panel (straight)	B	1671113-2

Unshielded Twisted Pair (UTP) Cabling Systems

Sigma-Link System

Sigma-Link Classic Patch Panel

FEATURES:

- 19" 1 U unloaded panel to be equipped with S-Link Classic Cassettes

- Including grounding bolt

- Angled and flush style panels available

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Sigma-Link Hi-D Patch Panel	1-1671214-1
Sigma-Link Flush Patch Panel	1-1671215-1

Sigma-Link Classic Cable Assemblies, Class E

FEATURES:

- S-Link is a factory-installed high efficiency solution

- 24 connections per U, 6-port links

- Lengths 2–90 meter

- 100% factory tested

- Bundle of 6 x 4 pair solid Cat. 6 U/UTP Cable

- LSZH Sheath

- Cat. 6 RJ-45 Jacks

- Integrated Plastic Optical Fiber (POF) in cassette to cassette version

ORDERING INFORMATION

Description	Part Number
Cassette to cassette with PDF	Y-1671216-X
Cassette to jack	Y-1671217-X
Cassette to open end	Y-1671218-X

Y - X	Length
0- -2	2.0 m
0- -5	5.0 m
1- -0	10.0 m
1- -5	15.0 m
2- -0	20.0 m
2- -5	25.0 m
3- -0	30.0 m

Y - X	Length
3- -5	35.0 m
4- -0	40.0 m
5- -0	50.0 m
6- -0	60.0 m
7- -0	70.0 m
8- -0	80.0 m
9- -0	90.0 m

110Connect XC Cat. 5e Connecting Blocks

FEATURES

- Utilize double-ended insulation displacement contacts (IDC) that terminate 24-22 AWG solid or stranded conductors with a maximum O.D. of .063 inch

- Available in 4- and 5-pair sizes with the appropriate color coding

A   B
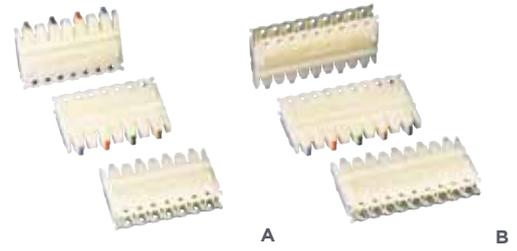
ORDERING INFORMATION

Description		Figure	Part Number
Connecting Blocks	4-Pair	A	558401-1
	5-Pair	B	558402-1

110 Connect XC Cat. 5e Wiring Blocks

FEATURES

- Accept 24-22 AWG conductors

- Blocks are available in 50-, 100 and 300-pair sizes with legs for backboard mounting

A   B

ORDERING INFORMATION

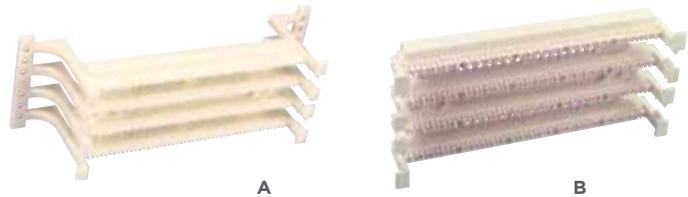| Description			Figure	Part Number
Wiring Blocks	With Legs	50-Pair	-	558841-1
		100-Pair	A	558842-1
		300-Pair	-	558843-1
	Without Legs	50-Pair	-	558839-1
		100-Pair	B	558840-1

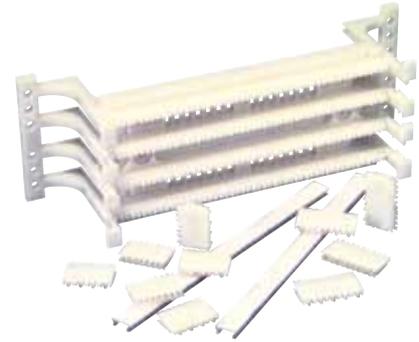*1. Unshielded Twisted Pair (UTP) Cabling System*

110Connect XC Cat. 5e Kits

FEATURES

- Kits include wiring blocks with legs, connecting blocks, designation strips and white labels for the pair counts identified

ORDERING INFORMATION

Description		Part Number
50-Pair	4- & 5-Pair Connecting Blocks	569433-1
	5-Pair Connecting Blocks	569434-1
100-Pair	4- & 5-Pair Connecting Blocks	569439-1
	5-Pair Connecting Blocks	569440-1
300-Pair	4- & 5-Pair Connecting Blocks	569445-1
	5-Pair Connecting Blocks	569446-1

Adapter for 89B Bracket Part Number 558838-1

FEATURES

- Used to mount a 50-pair 110Connect XC wiring block on an 89B bracket
- Two adapters are required for each assembly
- Wiring blocks and 89B brackets purchased separately

110Connect XC Cat. 5e Cross-Connect Distribution Frame Kits

FEATURES

- Reduce time needed for planning and installing a cross-connect on a backboard

- Include metal back frame, wiring blocks, connecting blocks, cable management troughs, designation strips and appropriate hardware

- Quick and easy installation

- Available in 300- and 900-pair sizes with either 4- or 5-pair connecting blocks

ORDERING INFORMATION

Description		Part Number
300-Pair	4- & 5-Pair	569854-1
	5-Pair	569855-1
900-Pair	4- & 5-Pair	569857-1
	5-Pair	569858-1

TE connectivity

110Connect XC Cable Management

FEATURES

- Cable Management Frames and Cable Management Rings provide high capacity storage of patch cables and jumper wire

- Cable Management Trough provides horizontal management and organization of patch cables and jumper wire

- Troughs are available with or without legs

- Suitable for mounting directly to a plywood backboard

- Quick and easy installation
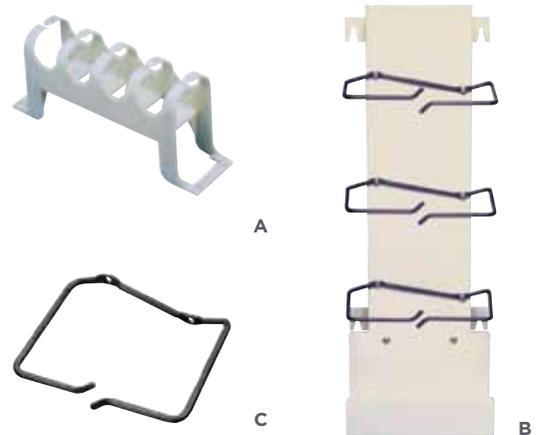
ORDERING INFORMATION

Description			Figure	Part Number
Cable Management Trough	White	With Legs	A	569389-1
		Without Legs	–	569597-1
Vertical Cable Management Frame	White	300-Pair	B	569851-1
		900-Pair	-	569852-1
Cable Management Rings	Black	5.7" W	C	569431-1
		8.5" W	–	569599-1

110Connect XC Cat. 5e Cross-Connect Rack Mount Panel

FEATURES

- For mounting cross-connect hardware on a 19" rack

- Wiring block and cable management panels available

- Connecting blocks and plastic label covers purchased separately

- Rack Mount Cable Management Panels provide horizontal management and organization of patch cables and jumper wire
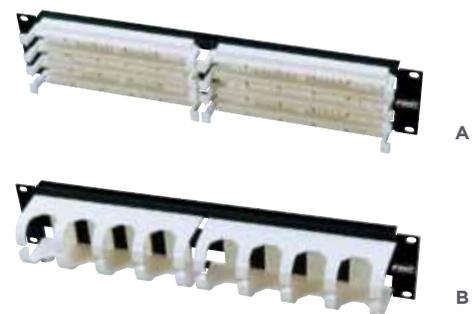
ORDERING INFORMATION

Description	Pair Count	Height	Width	Figure	Part Number
110Connect XC Cross-Connect Rack Mount Panel Kits	100-Pair	1U (1.75")	19"	–	558635-1
	200-Pair	2U (3.50")	19"	A	558637-1
	400-Pair	5U (8.75")	19"	–	558639-1
Cable Management Trough Rack Mount Panel	–	2U (3.50")	19"	B	406641-1

Security Key Plug

FEATURES:

- Lock to RJ-45 modular jacks
- Can be used for public areas or conference rooms
- RoHS compliant

Color: White

ORDERING INFORMATION

Description	Part Number
Plug with 2 keys (key number is randomly selected)	1871456-1
Plug with 2 keys (default key number "456A")	1871456-2
Plug only (to match with default key "456A")	1871456-3
Default key "456A"	0-1871456-4

Security Key Patch Cord

FEATURES:

- Security key plug mechanism
- Prevent unauthorized disconnection
- Can be used for secure connection (e.g. server lines)
- UTP Cat. 5E performance
- PVC sheath

Color: White

ORDERING INFORMATION

Description	Part Number
Security Key Patch Cord (incl. default key "456A"), both ends	1939121-X
Security Key Patch Cord (incl. default key "456A"), one end	2069765-X

- X	Length
-1	1.0 m
-2	2.0 m
-3	3.0 m
-4	4.0 m
-5	5.0 m

Security Key Jack

FEATURES:

- Lock to RJ-45 modular plugs
- Can be used for un-used patch cords

Color: White

ORDERING INFORMATION

Description	Part Number
Security Key Jack (incl. default key "456A")	1-1871456-2

TE connectivity

RJ45 SECURE SL Series Category 6 Modular Jacks

FEATURES:

- Six color-coded keyed designs limit improper connections in segregated networks

- RJ45 SECURE plugs only mate with RJ45 SECURE jacks of the same color

- Configure faceplates with one or more RJ45 SECURE connectors to provide a common access point to multiple segregated or secure networks

- Same thin profile as standard RJ45 SL Series jacks - easily snaps into SL Series modules, duplex mounting straps, Patch Panels and enclosures

- May be used in straight or angled faceplate modules

- 180° cable dress for easy termination

- Unshielded jacks also allow 90° cable dress

- Universal wiring label permits wiring to T568A or T568B

- Bend-limiting strain relief included with unshielded jacks

- UL Listed: E81956

- 8-Position RJ45 SECURE Modular Jacks for 1-, 2-, 3- and 4-Pair applications

- Shielded and unshielded jacks

- Can be terminated with SL Series Modular Jack Termination Tool 1725150-1

ORDERING INFORMATION

Description	Part Number
T568A/T568B; Unshielded; 180° or 90° Entry	Y-1479794-X
T568A/T568B; Shielded; 180° Entry	Y-1479795-X

Y- -X	Color
0- -1	Red
0- -2	Yellow
0- -3	Green
0- -4	Blue
0- -8	Violet
0- -9	Orange

Category 6 RJ45 SECURE Patch Cable Assemblies

FEATURES:

- Six color-coded keyed designs limit improper connections in segregated net
- RJ45 SECURE plugs only mate with RJ45 SECURE jacks of the same color
- RJ45 SECURE assemblies have a standard plug on one end and a RJ45 SECURE plug on the other end
- Color-matched snagless boots
- Universal wiring (T568A/T568B)
- 26 AWG stranded conductors
- Shielded and unshielded cable assemblies
- Cable assemblies are riser rated

ORDERING INFORMATION

Description	Color	Part Number
RJ45 SECURE Patch Cord Unshielded	Red	Y-1499841-X
RJ45 SECURE Patch Cord Unshielded	Yellow	Y-1499842-X
RJ45 SECURE Patch Cord Unshielded	Green	Y-1499843-X
RJ45 SECURE Patch Cord Unshielded	Blue	Y-1499844-X
RJ45 SECURE Patch Cord Unshielded	Violet	Y-1499845-X
RJ45 SECURE Patch Cord Unshielded	Orange	Y-1499846-X
RJ45 SECURE Patch Cord Shielded	Red	Y-1499848-X
RJ45 SECURE Patch Cord Shielded	Yellow	Y-1499849-X
RJ45 SECURE Patch Cord Shielded	Green	Y-1499850-X
RJ45 SECURE Patch Cord Shielded	Blue	Y-1499851-X
RJ45 SECURE Patch Cord Shielded	Violet	Y-1499852-X
RJ45 SECURE Patch Cord Shielded	Orange	Y-1499853-X

Y- -X	Length
0- -2	2 feet
0- -3	3 feet
0- -4	4 feet
0- -5	5 feet
0- -6	6 feet
0- -7	7 feet
0- -8	8 feet
0- -9	9 feet
1- -0	10 feet
1- -2	12 feet
1- -4	14 feet
1- -5	15 feet
1- -6	16 feet
2- -0	20 feet
2- -5	25 feet
3- -0	30 feet
4- -0	40 feet
5- -0	50 feet

TE connectivity

SL Series 110Connect Jacks

FEATURES:

- SlimLine (SL) Series: Thin profile improves outlet density

- Cat. 6 Pyramid Tested (see reference on page 215)

- Jacks available with integral dust covers

- 90° or 180° cable dress for easy termination

- Universal wiring label permits wiring to T568A or T568B

- Bend-limiting strain relief included

- UL listed

ORDERING INFORMATION

Description	Wiring Pattern	Part Number
Cat. 6 RJ-45 Jacks		
Cat. 6	T568A/T568B	**1933748-X**
Cat. 6	T568A/T568B	1375055-X*
Cat. 6 with dust cover	T568A/T568B	1375187-X
Cat. 5E RJ-45 Jacks		
Cat. 5E	T568A/T568B	1375191-X
Cat. 5E with dust cover	T568A/T568B	1375190-X
Cat. 3 RJ-11 Jacks		
Cat. 3 (6-Pos.)	RJ11C/RJ14C/RJ25C	1375192-X
Cat. 3 (6-Pos.) with dust cover	RJ11C/RJ14C/RJ25C	1375193-X

*For Korean market only.

- X	Color
-1	Beige
-2	Black
-3	White
-6	Blue
-7	Red

Other colors on request!

SL Series Toolless Jacks

FEATURES:

- SlimLine (SL) Series: Thin profile improves outlet density

- Cat. 5E

- Terminate with common pliers

- Hinged stuffer cap simplifies assembly

- Jacks available with integral dust covers

- Universal wiring label permits wiring to T568A or T568B

- UL listed

ORDERING INFORMATION

Description	Wiring Pattern	Part Number
Cat. 5E Jacks		
Cat. 5E	T568A/T568B	1116604-X
Cat. 5E with dust cover	T568A/T568B	1339189-X
Cat. 3 Jacks		
Cat. 3 (6-Pos.)	RJ11C/RJ14C/RJ25C	1116603-X
Cat. 3 (6-Pos.) with dust cover	RJ11C/RJ14C/RJ25C	1339188-X

- X	Color
-1	Beige
-2	Black
-3	White
-6	Blue
-7	Red

Other colors on request!

RJ-45 Dust Cap

FEATURES:

- Re-usable rubber dustcaps

- Fits in all RJ 45 Jacks

- Available in 7 colors

ORDERING INFORMATION

Description	Part Number
RJ-45 dust cap	969556-X

- X	Color
-1	Red
-2	Yellow
-3	Green
-4	Blue
-5	Black
-6	Grey
-7	White

For Faceplates see Chapter 5 page 145

TE
connectivity

Standard 110Connect Jacks

FEATURES:

- Cat. 5E

- Universal wiring label permits wiring to T568A or T568B

- UL listed

- X	Color
-1	Beige
-2	Black
-3	White
-6	Blue
-7	Red

Other colors on request!

ORDERING INFORMATION

Description	Wiring Pattern	Part Number
Cat. 5E RJ-45 Jacks		
Cat. 5E	T568A/T568B	406372-X
Cat. 5E	T568A/T568B	8-406372-X*
Cat. 3 (6-Pos.)	RJ11C/RJ14C/RJ25C	406375-X

*For PRC market only.

Modular Telephone-Couplers

FEATURES:

- Straight Cat. 3 telephone coupler

- SL Series, fits into all faceplates

- Connects either 2 RJ-45 (8 pos.) or 2 RJ-11 (6 pos.) plugs

Color: Black

ORDERING INFORMATION

Description	Cable Exit	Part Number
RJ-45 Coupler (8 pos.)	straight (180°)	555052-1
RJ-11 Coupler (6 pos.)	straight (180°)	555050-1

EtherSeal Jack and Coupler Kits

FEATURES:

- Cat. 6 or 5E and IP67 compliant, unshielded

- Traditional 110 tool and toolless versions

- Front-loading into enclosures and outlets

- Push-On and Twist Off Mating Action

- Blind mate with Polarized Keying

- Tactile feedback confirms full mating

- Optional Outlet Cap with tether available

- Refer to page 33 for EtherSeal patch cords

ORDERING INFORMATION

Description	Part Number
Cat. 6 SL Series 110Connect Modular Jack Kit	1479565-2
Cat. 5E SL Series 110Connect Modular Jack Kit	1479563-2
Cat. 5E SL Series Toolless Modular Jack Kit	1479561-2
Cat. 5E SL Series In-Line Coupler Kit	1479599-2
Jack/Outlet Cap	1479591-2
Positiv latching Modular Cap	1479861-1

TE
connectivity

Unshielded Twisted Pair (UTP) Cabling Systems
Patch Cords

Cat. 6 Patch Cord RJ-45 CM Slimline

FEATURES:

- Cat. 6 according to ISO/IEC 11801 and EN 50173-1
- 4 Pair stranded U/UTP cable
- CM sheath
- Transparent, SL boots
- TIA/EIA T568B wiring

ORDERING INFORMATION

Description	Part Number
White	Y-1859250-X
Blue	Y-1859247-X
Grey	Y-1859246-X
Red	Y-1859249-X
Green	Y-1859248-X

Y - X	Length
0- -5	5 ft
1- -0	10 ft
1- -5	15 ft
2- -0	20 ft

Other lengths and colors on request!

Cat. 5e Patch Cord RJ-45 CM Slimline

FEATURES:

- Cat. 5e according to ISO/IEC 11801 and EN 50173-1
- 4 Pair stranded U/UTP cable
- CM sheath
- Transparent, SL boots
- TIA/EIA T568A wiring

ORDERING INFORMATION

Description	Part Number
White	Y-1859242-X
Blue	Y-1859239-X
Grey	Y1859238-X
Red	Y-1859241-X
Green	Y-1859240-X

Y - X	Length
0- -5	5 ft
1- -0	10 ft
1- -5	15 ft
2- -0	20 ft

Other lengths and colors on request!

5e 110XC to RJ-45 Patch Cord

FEATURES:

- Patch cord 110XC to RJ-45 Cat. 5e

- 4 Pair stranded U/UTP cable, AWG 24 conductors, universal wiring

- PVC sheath

- UL listed

Color: Grey

Y - X	Length
0- -2	0.6 m
0- -4	1.2 m
0- -6	1.8 m
0- -8	2.4 m
1- -0	3.0 m

ORDERING INFORMATION

Description	Wiring Pattern	Part Number
2 pairs 110XC to RJ-45	T568A/10BASE-T	Y-569685-X
2 pairs 110XC to RJ-45	T568B/10BASE-T	Y-569669-X
4 pairs 110XC to RJ-45	T568A	Y-569527-X
4 pairs 110XC to RJ-45	T568B	Y-569528-X

Cat. 5e 110XC to 110XC Patch Cord

FEATURES:

- Patch cord 110XC to 110XC Cat. 5e

- 4 Pair stranded U/UTP cable, AWG 24 conductors, universal wiring

- PVC sheath

- UL listed

Color: Grey

Y - X	Length
0- -2	0.6 m
0- -4	1.2 m
0- -6	1.8 m
0- -8	2.4 m
1- -0	3.0 m

ORDERING INFORMATION

Description	Part Number
1 pair 110XC to 110XC	Y-569523-X
2 pairs 110XC to 110XC	Y-569524-X
4 pairs 110XC to 110XC	Y-569526-X

TE connectivity

Unshielded Twisted Pair (UTP) Cabling Systems
Patch Cords

Consolidation Point Transition Cable Assemblies

FEATURES:

- Meets ISO/IEC 11801 and EN 50173-1

- Patch cord RJ-45 to RJ-45 Cat. 6

- 4 pair solid U/UTP cable

- CMR sheath

- TIA/EIA T568B wiring

Color: blue

Y - X	Length
0- -5	5 m
1- -0	10 m
1- -5	15 m
2- -0	20 m

ORDERING INFORMATION

Description	Part Number
Category 6	Y-1427314-X

EtherSeal Cat. 5E Patch Cord

FEATURES:

- Cat. 5E and IP67 compliant, utilizing industrial grade cable

- Factory-terminated and tested for quality

- Push-On and Twist-Off Mating Action

- Blind mate with Polarized Keying

- Tactile feedback confirms full mating

- Optional Plug Cap with available tether

Color: Grey

ORDERING INFORMATION

Description	Part Number
EtherSeal to EtherSeal	Y-1479601-X
EtherSeal to Standard RJ-45	Y-1479602-X
Plug Cap with tether	1479592-2

Y - X	Length
0- -3	0.9 m
0- -5	1.5 m
0- -7	2.1 m
1- -0	3.0 m
1- -5	4.5 m

2. Shielded Twisted Pair (STP) Cabling Systems

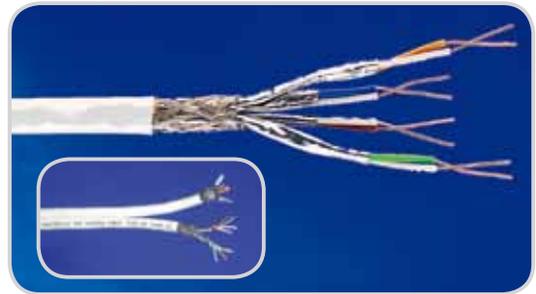# Shielded Twisted Pair (STP) Cabling Systems
System Cables

Category 7A S/FTP Cable

FEATURES:

- High performance S/FTP cable

- Qualified against IEC 61156-7 and tested up to 1500MHz / 1200MHz

- Enables broadband applications like CATV, multi-media etc.

- Individually foiled pairs plus overall copper braid

- AWG 22 or 23 solid conductor

- Fire retardant LSZH sheath
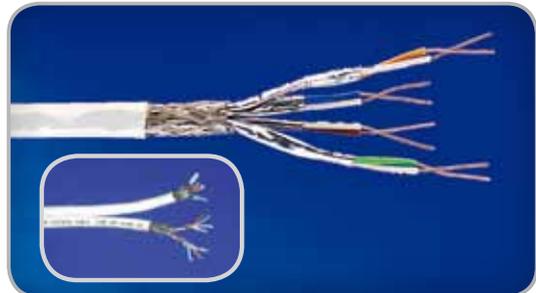
Color: White

For more Information see page 215

ORDERING INFORMATION

AWG	Type	OD	Packaging	Part Number
22	Simplex	8.1 mm	1000 m/Reel	1499101-1
23	Simplex	7.9 mm	1000 m/Reel	1711910-1
22	Duplex	8.1 x 16.5 mm	500 m/Reel	1711003-1
23	Duplex	7.9 x 16.0 mm	500 m/Reel	1711913-1

Category 7 S/FTP Cable

FEATURES:

- Qualified against IEC 61156-5 Category7 and EN 50288-4-1

- Individually foiled pairs plus overall copper braid

- AWG 23 solid conductor

- Fire retardant LSZH sheath

Color: White

For more Information see page 215

ORDERING INFORMATION

AWG	Type	OD	Packaging	Part Number
23	Simplex	7.3 mm	1000 m/Reel	57893-1
23	Duplex	7.6 x 16.0 mm	500 m/Reel	1711005-1

TE connectivity

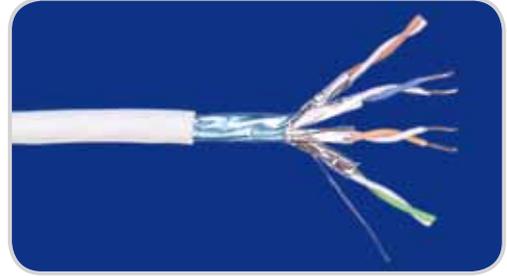# Shielded Twisted Pair (STP) Cabling Systems
System Cables

Category 7 F/FTP Cable

FEATURES:

- Qualified against IEC 61156-5 Category7 and EN 50288-4-1

- Individually foiled pairs plus overall foil shield and drain wire

- AWG 23 solid conductor

- LSZH sheath

Color: White

ORDERING INFORMATION

AWG	Type	OD	Packaging	Part Number
23	Simplex	7.4 mm	500 m/Reel	1711163-1
23	Duplex	7.2 x 15.0 mm	500 m/Reel	1711195-1

Category 6A F/UTP Cable

FEATURES:

- Qualified against TIA-568-C Augmented Category 6 and ISO 11801 Class EA specifications

- Overall foil shield

- AWG 23 solid conductor

Color: White

ORDERING INFORMATION

Conductors	Sheating	OD	Packaging	Part Number
Solid	LSZH	7.2 mm	305 m/Reel	1859218-2
Solid	CM	7.2 mm	305 m/Reel	1859222-2

Category 6 F/UTP Cable

FEATURES:

- Qualified against IEC 61156-5 Category 6, EN 50288-5-1 and TIA-568-C.2

- Overall foil shield

- AWG 23 solid conductor

- LSZH sheath

Color: White

ORDERING INFORMATION

Conductors	Sheating	OD	Packaging	Part Number
Solid	LSZH	7.2 mm	500 m/Reel	1427213-9

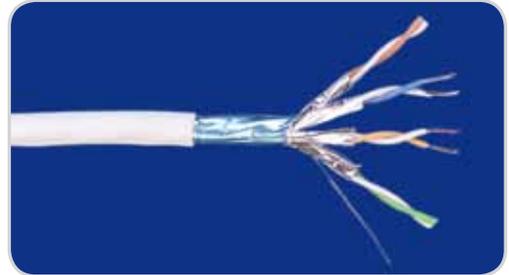<div style="text-align: right">2. Shielded Twisted Pair (STP) Cabling System</div>

Category 6 F/FTP Cable

FEATURES:

- Qualified against IEC 61156-5 Category 6, EN 50288-5-1 and TIA-568-C.2
- Individually foiled pairs plus overall foil shield
- AWG 23 solid conductor
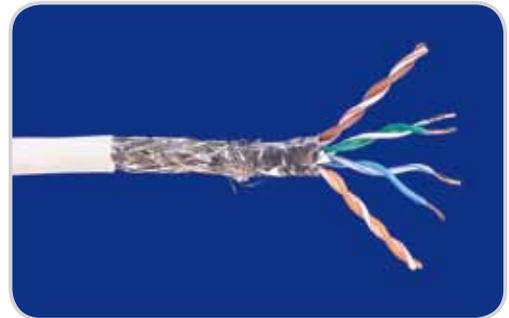- LSZH sheath

Color: White

ORDERING INFORMATION

AWG	Type	OD	Packaging	Part Number
23	Simplex	7.3 mm	500 m/Reel	1711007-1
23	Duplex	7.6 x 15.5 mm	500 m/Reel	1711008-1

Category 5E SF/UTP Cable

FEATURES:

- Qualified against IEC 61156-5 Category 5E and EN 50288-2-1
- Overall copper braid plus foil shield
- Very low delay skew, suitable for 1000Base-T
- AWG 24 solid conductor

Color: White

ORDERING INFORMATION

Sheathing	Type	OD	Packaging	Part Number
LSZH	Simplex	6.5 mm	500 m/Reel	219484-2

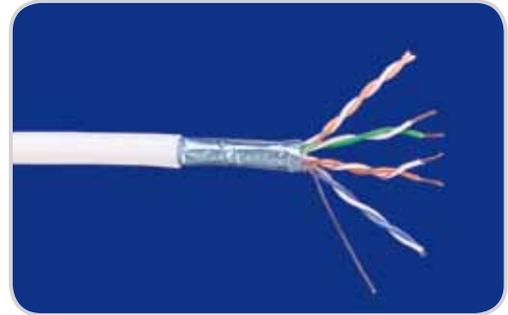# Shielded Twisted Pair (STP) Cabling Systems
System Cables

Category 5E F/UTP Cable

FEATURES:

- Qualified against IEC 61156-5 Category 5E and EN 50288-2-1

- Overall foil shield with drain wire

- Very low delay skew, suitable for 1000Base-T

- AWG 24 solid conductor

Color: White

ORDERING INFORMATION

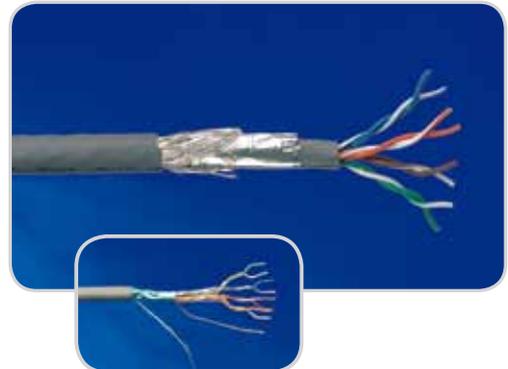| Sheathing	Type	OD	Packaging	Part Number
LSZH	Simplex	6.2 mm	see table	219420-X
LSZH	Duplex	5.9 x 12.2 mm	500 m/Reel	136816-1
PVC	Simplex	6.2 mm	see table	219413-X

- X	Packaging
-2	305 m, Pullbox
-3	1000 m, Reel

EtherSeal Category 5E Cable

FEATURES:

- Meets or exceeds TIA and ISO/IEC Category 5E specifications

- Exceeds all requirements for Gigabit Ethernet

- Sunlight (UV) resistant for harsh environments

- Oil resistant, Level II

- Double jacketed – PVC

- CMR (Riser) rated

- AWG 24 conductor

Color: Grey

ORDERING INFORMATION

Conductors	No. of Sheaths	OD	Packaging	Part Number
Solid	1	6.4 mm	305 m/Reel	1499449-3
Stranded	2	7.7 mm	305 m/Reel	1499450-3

XG Category 6$_A$ AMP-TWIST Shielded Patch Panels

FEATURES:

- Meets or exceeds all ISO/IEC Category 6A performance standards

- Shielded installation made simple with jacks

- Ports may be individually replaced

- Packaged unloaded with jacks bagged separately for termination with SL Series Jack Termination Tool

- Available in straight and angled versions

- Labels and label covers included

- Accommodates icons (sold separately)

- Integrated bonding bar makes bonding simple and requires no extra steps
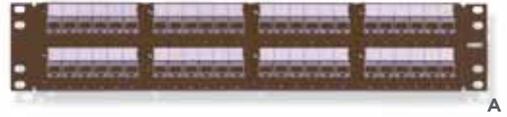
Color : black

ORDERING INFORMATION

Description	Height	Width	Figure	Part Number
24-Port Straight Panel	1U (1.75″)	19.0″	–	1933319-2
48-Port Straight Panel	2U (3.50″)	19.0″	A	1933320-2
24-Port Angled Panel	1U (1.75″)	19.0″	–	1933321-2
48-Port Angled Panel	2U (3.50″)	19.0″	B	1933322-2

UCP Patch Panel Angled and Flushmount

FEATURES:

- 19" 1U unloaded modular patch panel with 4 UCP cutouts

- Angled and flush style panels available

- Modular rear cable bracket to manage and bundle different media cabling

- Accepts Pre-terminated Cu or FO cassettes or Field terminated Cu or FO modules

- Including grounding bolt

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
UCP Patch Panel 1U Angled	1-1671590-1
UCP Patch Panel 1U Flush	1-1671594-1

Shielded Twisted Pair (STP) Cabling Systems
Patch Panels

Multimedia SL Series Patch Panels (unloaded)

FEATURES:

- Accepts AMP-TWIST, shielded, and unshielded SL Series Jacks and inserts

- May be used to create custom configurations – including mixing fiber, twisted-pair, coax and A/V applications

- Ports may be individually replaced

- Angled versions allow elimination of horizontal cable management for higher rack densities and ease of cable dress

ORDERING INFORMATION

Description	Height	Width		Figure	Part Number
12-Port	1U (1.75")	19.0"	Straight	–	1933412-1
24-Port	1U (1.75")	19.0"	Straight	–	1933307-1
			Angled	–	1933309-1
48-Port	2U (3.50")	19.0"	Straight	A	1933308-1
			Angled	B	1933310-1

Flushmount Modular Patch Panel (unloaded)

FEATURES:

- 19" 1 U unloaded flushmount panel to be equipped with different SlimLine jacks

- Including grounding bolt

- AMPTRAC functionality not applicable for jacks with dustcover

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Flushmount Modular Panel	1-1671183-1
Flushmount Full AMPTRAC Modular Panel	1-1671187-1

Flushmount AMPTRAC Ready! Patch Panel (unloaded)

FEATURES:

- 19" unloaded flushmount patch panel to be equipped with different SlimLine jacks

- AMPTRAC Ready! version: prepared for AMPTRAC upgrade

- Full AMPTRAC version: fully equipped with AMPTRAC functionality

- Holds up to 24 SL Jacks

ORDERING INFORMATION

Description	Color	Part Number
Full AMPTRAC* unloaded Panel for AMP-TWIST 7 jacks	Black	1711742-1
Full AMPTRAC* unloaded Panel for AMP-TWIST 6 jacks	Black	1711685-4
AMPTRAC Ready! unloaded panels for all SL jacks	Black	1711685-1
AMPTRAC Ready! unloaded panels for all SL jacks	Light Grey	1711685-2
I/O Upgrade Kit to Full AMPTRAC* for AMP-TWIST 7 jacks	Black	1711749-1
I/O Upgrade Kit to Full AMPTRAC* for AMP-TWIST 6 jacks	Black	1711148-1

* AMPTRAC functionality not applicable for jacks with dustcover

Flushmount Standard Patch Panel (unloaded)

FEATURES:

- 19" Standard unloaded flushmount panel to be equipped with different SlimLine jacks

- Including grounding bolt

- Holds up to 24 modular SL jacks

- Ports are iconable

ORDERING INFORMATION

Description	Height	Part Number
24 port panel	1 U	336526-X

- X	Color
-1	Black (RAL 9005)
-4	Light Grey (RAL 7035)

Shielded Twisted Pair (STP) Cabling Systems
Patch Panels

Discrete High Density Angled SL Series Patch Panel (unloaded)

FEATURES:

- Accepts AMP-TWIST, shielded, and unshielded SL Series Jacks and inserts (purchased separately)

- Highest density solution for 2U (3.50")

- Ports may be individually replaced

- Angled version allow elimination of horizontal cable management for higher rack densities and ease of cable dress

Color: Black

ORDERING INFORMATION

Description	Width	Figure	Part Number
72-Port Discrete Angled Panel	2U (3.50")	19.0"	1499613-1

Modular Patch Panel with Shutter (unloaded)

FEATURES:

- 19" 1U unloaded patch panel to be equipped with SlimLine jacks

- Holds up to 24 SL jacks

- Optional rear cable support bar (sold separately)

Color: Black

ORDERING INFORMATION

Description	Part Number
Angled Patch Panel with Shutter (for Shielded solution)	1859182-1
Rear Cable support bar	84841-1

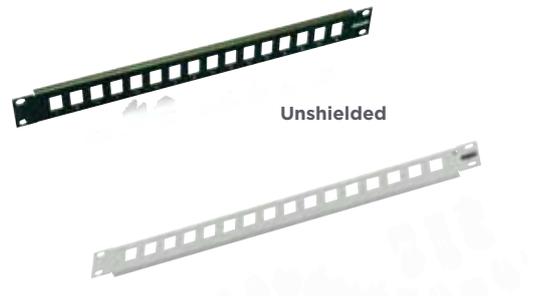# Shielded Twisted Pair (STP) Cabling Systems
Patch Panels

110Connect Modular Jack Patch Panels (unloaded)

FEATURES:

- Shielded patch panels accept shielded 110Connect and Inserts for 110Connect Modular Jack Patch Panels

- May be used to create custom configurations

- Ports may be individually replaced

Color: Black (RAL 9005)

Unshielded

ORDERING INFORMATION

Description	Height	Width	Part Number
16-Port	1U (1.75")	19.0"	557429-2
32-Port	2U (3.50")	19.0"	557430-2
48-Port	3U (5.25")	19.0"	557431-2

Cable Support Bars

FEATURES:

- Designed to provide additional cable support and routing control in the rear of 19" racks and panels

- Cable support bars that mount directly to rack provide the best support - other bars are available for specialty applications

Color: Black
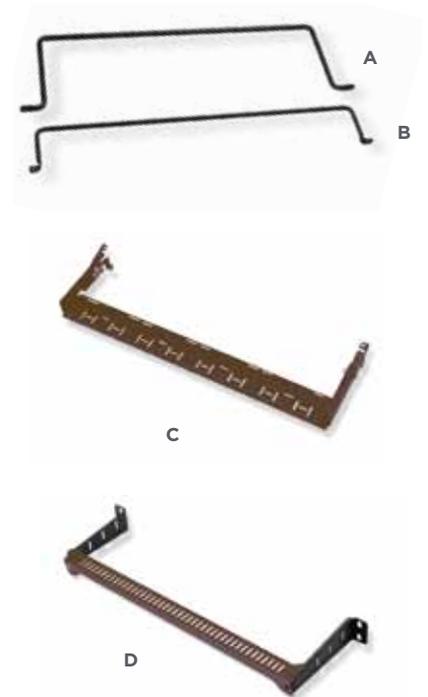
ORDERING INFORMATION

Description	Figure	Compatible with	Part Number
Mounts to back of rack, 5" deep	A	(Mounts to rack)	557548-1
Mounts to back of rack, 2" deep	B	(Mounts to rack)	406042-1
Mounts to rear of XG and SL Multimedia Patch Panels, 1U	C	1933307, 1933309, 1933319, 1933321, 1933331, 1933323	1933425-1
Cable Management Bar, 6" deep	D	(Mounts to rack)	1933352-1
Cable Management Bar, 9" deep	–	(Mounts to rack)	1933352-2
Cable Management Bar, 12" deep	–	(Mounts to rack)	1933352-3
Cable Management Bar, 16" deep	–	(Mounts to rack)	1933352-4

Cover for Angled Patch Panels

PART NUMBER 1499614-1

FEATURES:

- For use with angled patch panels
- Protects cabling from dust and damage
- Compatible with: 1499600, 1499601, 1499602, 1499603, 1499604, 1499605, 1933321, 1933322, 1933309, 1933310, 1499613, 1933333, 1933334, 1933329, 1933330, 1933325, 1933326 panels

Blank Panels

FEATURES:

- Standard 19″ length panels are designed for use in filling equipment rack voids

ORDERING INFORMATION

Description	Part Number
1U (1.75″)	556965-1
2U (3.50″)	556965-2
3U (5.25″)	556965-3
4U (7.00″)	556965-4
5U (8.75″)	556965-5

2. Shielded Twisted Pair (STP) Cabling System

Shielded Twisted Pair (STP) Cabling Systems
Hi-D Patch Panels

Hi-D 1U Modular Panel (unloaded)

FEATURES:

- 19" 1U angled modular patch panel

- Adjustable & removable rear cable bracket incl. easy to use cable organizing CaRe-clips

- Hi-DXT includes cable managers

- 4 universal cutouts

- Jacks sold separately (see catalog)

- Available with AMPTRAC functionality (jacks included)
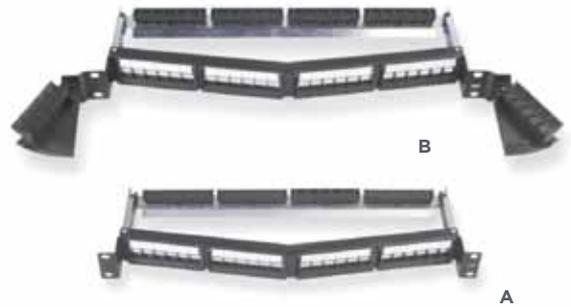
ORDERING INFORMATION

Description	Figure	Part Number
Hi-D modular panel STP	A	1-1671157-2
Hi-D AMPTRAC modular panel STP	–	1-1671136-2
Hi-DXT modular panel STP	B	1-1671158-2

Hi-D 1U Blind Panel

FEATURES:

- 1U blind panels

- Angled version to leave a space in between Hi-D panels

- Straight version to fill space between Hi-D panels and straight panels or active equipment

ORDERING INFORMATION

Description	Part Number
Hi-D 1U blind panel angled	1671113-1
Hi-D blind panel (straight)	1671113-2

MRJ21 Snap-In Cassette, Shielded

FEATURES:

- High performance TP Cabling for guaranteed application performance

- High-density, small form factor connectivity

- Factory terminated and tested solution

- Modular, pluggable solution

- Application specific cassettes

- Front plate includes cassette bonding fastener

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ-45 Ports	Part Number
Snap-In Cassette shielded for 1000Base-T	1	6	1777086-1
Snap-In Cassette shielded for 100Base-T	1	12	1777082-1
19" front plate panel 1 U for 3 cassettes	–	–	1479451-1

Hi-D MRJ21 Angled Patch Panel

FEATURES:

- High-performance TP cabling for guaranteed application performance

- High-density, small form factor copper connector interface

- Angled panel with 48 ports on 1 U

- Factory terminated and tested solution

- Modular, pluggable solution

- For rear cable management bars see 170

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ-45 Ports	Part Number
Hi-D MRJ21 panel for 1000Base-T	8	48	1-1671143-1

Shielded Twisted Pair (STP) Cabling Systems
MRJ21 Connector System

MRJ21 Patch Panel, 1 U, Straight, Shielded

FEATURES:

- High performance TP Cabling for guaranteed application performance

- High-density, small form factor copper connector interface

- Factory terminated and tested solution

- Straight panel with 48 ports on 1 U

- Modular pluggable solution

- Available with AMPTRAC functionality

- For rear cable management bars see page 170

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	MRJ21 Plugs	RJ-45 Ports	Part Number
Standard straight panel for 1000 Base-T	8	48	1777098-1
AMPTRAC straight panel for 1000 Base-T	8	48	1777105-1

MRJ21 to MRJ21 Cable Assemblies, Shielded

FEATURES:

- Friendly field installable 1 Gbs solution

- Enhanced screening and improved EMC

- Factory terminated and 100 % tested solution

- Dense double blade connector with offset jackscrews for latching

- 1,5 to 4 times the port density of 2 x 6 Stacked Mod Jack (RJ-45)

- 24 pair shielded cable with AWG 24 solid conductors

- LSZH sheath

Color: White

Y - X	Length
0- -5	5.0 m
1- -0	10.0 m
1- -5	15.0 m
2- -0	20.0 m
2- -5	25.0 m

Y - X	Length
3- -0	30.0 m
3- -5	35.0 m
4- -0	40.0 m
5- -0	50.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Part Number
MRJ21 to MRJ21, 180°–180° back shell	Y-1711758-X
MRJ21 to MRJ21, 180°–45° back shell	Y-1711774-X

TE connectivity

Sigma-Link Classic Cable Assemblies Class F_A

FEATURES:

- 24 connections per 1 U, 6-port links

- Lengths 2–90 meter

- S-Link is a factory-installed high efficiency solution

- 100% factory tested

- Bundle of 6 x 4 pair solid Category 7_A S/FTP cable (compliant to IEC 61156-7)

- LSFRZH Sheath

- AMP-TWIST 7AS SL jacks

- Integrated Plastic Optical Fiber (POF) in cassette to cassette version

Color: White

ORDERING INFORMATION

Description	Part Number
Cassette to cassette with POF	Y-1671222-X
Cassette to jack	Y-1671223-X
Cassette to open end	Y-1671224-X

Y - X	Length		Y - X	Length
0- -2	2.0 m		3- -5	35.0 m
0- -5	5.0 m		4- -0	40.0 m
1- -0	10.0 m		5- -0	50.0 m
1- -5	15.0 m		6- -0	60.0 m
2- -0	20.0 m		7- -0	70.0 m
2- -5	25.0 m		8- -0	80.0 m
3- -0	30.0 m		9- -0	90.0 m

Sigma-Link Classic Cable Assemblies Class E_A (S/FTP)

FEATURES:

- 24 connections per 1 U, 6-port links

- Lengths 2–90 meter

- S-Link is a factory-installed high efficiency solution

- 100% factory tested

- Bundle of 6 x 4 pair solid Category 7 S/FTP cable

- LSFRZH sheath

- AMP-TWIST 6S SL jacks

- Integrated Plastic Optical Fiber (POF) in cassette to cassette version

Color: White

ORDERING INFORMATION

Description	Part Number
Cassette to cassette with POF	Y-1671219-X
Cassette to jack	Y-1671220-X
Cassette to open end	Y-1671221-X

Y - X	Length		Y - X	Length
0- -2	2.0 m		3- -5	35.0 m
0- -5	5.0 m		4- -0	40.0 m
1- -0	10.0 m		5- -0	50.0 m
1- -5	15.0 m		6- -0	60.0 m
2- -0	20.0 m		7- -0	70.0 m
2- -5	25.0 m		8- -0	80.0 m
3- -0	30.0 m		9- -0	90.0 m

Sigma-Link Classic Cable Assemblies Class E$_A$ (F/UTP)

FEATURES:

- 24 connections per 1 U, 6-port links

- Lengths 2–90 meter

- S-Link is a factory-installed high efficiency solution

- 100% factory tested

- Bundle of 6 x 4 pair solid Category 6$_A$ F/UTP cable

- LSZH sheath

- AMP-TWIST 6S SL jacks

- Integrated Plastic Optical Fiber (POF) in cassette to cassette version

Color: White

ORDERING INFORMATION

Description	Part Number
Cassette to cassette with POF	Y-1671377-X
Cassette to jack	Y-1671380-X
Cassette to open end	Y-1671381-X

Y - X	Length		Y - X	Length
0- -2	2.0 m		3- -5	35.0 m
0- -5	5.0 m		4- -0	40.0 m
1- -0	10.0 m		5- -0	50.0 m
1- -5	15.0 m		6- -0	60.0 m
2- -0	20.0 m		7- -0	70.0 m
2- -5	25.0 m		8- -0	80.0 m
3- -0	30.0 m		9- -0	90.0 m

Sigma-Link Classic Patch Panel

FEATURES:

- 190 1 U unloaded flushmount panel
  to be equipped with S-Link Classic Cassettes

- Including grounding bolt

- Angled and flush style panels available

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Sigma-Link Classic Hi-D patch panel	1-1671214-1
Sigma-Link Classic Flush patch panel	1-1671215-1

TE connectivity

Shielded Twisted Pair (STP) Cabling Systems
Zone Cabling Boxes

AMP-TWIST / SL Jack Consolidation Point (unloaded)

FEATURES:

- 1 U consolidation point for wallmount or raised floor use

- Accepts 4 or 12 AMP-TWIST or SL Jacks

- Including grounding bolt and strain relief

- Hinged cover with knurled screw

- Dust protection for the full connection

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Dimensions (mm)	Ports	Part Number
SL Jack Consolidation Point	115 x 245 x 40	4	1-1671163-1
SL Jack Consolidation Point	235 x 245 x 40	12	2-1671163-1

AMP-TWIST / SL Jack Distribution Box (unloaded)

FEATURES:

- 1 U distribution box for wallmount or raised floor use

- Accepts 12 AMP-TWIST or SL Connectors

- Including grounding bolt

- Includes cable glands and blind covers for cable entries

- Dimensions: 200 x 150 x 40 mm

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Distribution Box for AMP-TWIST or SL Jacks	1671128-1

The following connectors can be mounted into the boxes shown above:

| **AMP-TWIST 7$_A$S SL Jack** | **AMP-TWIST 6S SL Jack** | **SL 110Connect Jack** | **SL Toolless Jack** |

AMP CO Plus 24 Port High Density Patch Panel

FEATURES:

- 190 patch panel for 24 inserts

- Performance up to 2,0 GHz

- Straight cable exit plus management bar

- Kit includes 12 shielded dual housings and frames,
  24 edge connectors plus mounting material
  incl. VDO grounding bolt
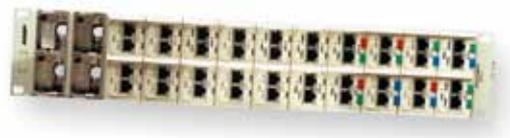
ORDERING INFORMATION

Description	Height	Colour	Part Number
Standard	2 U	Light Grey (RAL 7035)	1394574-1
Standard	2 U	Black (RAL 9005)	1394574-3
Housing protection kit	2 U	Silver	E41188-000

AMP CO Plus Category 7$_A$ ARJ-45 Style Insert for All Applications (incl. 10 Gb/s)

FEATURES:

- Exchangeable system insert for 1 x ISO
  Category 7/7$_A$
  (acc. IEC 60603-7-7)

- Category 7$_A$ / Class FA, supports
  1 GHz bandwidth

- Application:
  All services incl. 10 Gigabit Ethernet

Pin out: EIA/TIA 568 A; 8 pins, shielded
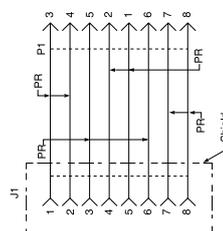
For more
Information
see page 215

ORDERING INFORMATION

Description	Part Number
Insert Category 7/7$_A$ ARJ-45	1711609-X

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

TE
connectivity

AMP CO Plus Category 7A AMP-TWIST 7AS Style Insert for All Applications (incl. 10 Gb/s)

FEATURES:

- Exchangeable system insert for 1 x ISO Category 7/7$_A$ (acc. IEC 61076-3-104)

- Category 7$_A$ / Class FA, supports 1 GHz bandwidth

- Application:
  All services incl. 10 Gigabit Ethernet

- Pin out: EIA/TIA 568A; 8 pins, shielded
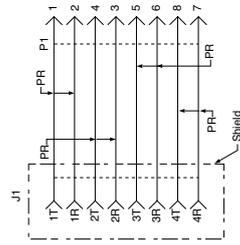
For more
Information
see page 215

ORDERING INFORMATION

Description	Part Number
Insert Category 7/7A AMP-TWIST 7AS	1711409-X

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

AMP CO Plus Category 7 Dual RJ-45 Insert, Two Pairs

FEATURES:

- Exchangeable system insert 2 x RJ-45

- Category 7/ Class F (pairs 12,78 according ISO/IEC 11801 and EN 50173)

- Application: 2 x ATM 622 MBit/s or Gigabit Ethernet 1000Base-TX2

Pin out: 12,78 + 12,78; 2 x 4 pins, shielded
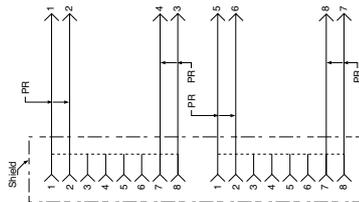
ORDERING INFORMATION

Description	Part Number
Insert 2 x RJ-45 Category 7	336556-X

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

AMP CO Plus Category 6 RJ-45 Insert for All Applications (incl. 10 Gigabit/s)

FEATURES:

- Exchangeable system insert 1 x RJ-45

- Application: 1 x all applications incl. Gigabit Ethernet 1000Base-T, 1000Base-TX or 1,2 GBit ATM, 10 GBit Ethernet

Pin out: EIA/TIA 568 A: 8 pins, shielded
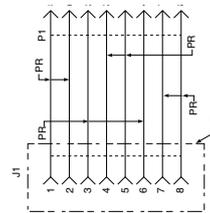
For more
Information
see page 215

ORDERING INFORMATION

Description	Part Number
Insert 1 x RJ-45 Category 6	336548-X
Insert 1 x RJ-45 10 GBE	1711796

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

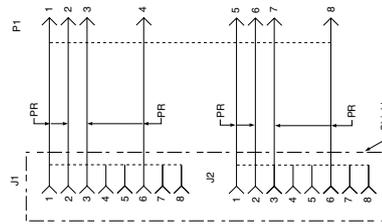## AMP CO Plus Category 6 Dual RJ-45 Insert for Fast Ethernet

FEATURES:

- Exchangeable system insert 2 x RJ-45

- Application:
  2 x Fast Ethernet 100Base-TX

Pin out: 12,36 + 12,36; 2 x 4 pins, shielded

ORDERING INFORMATION

Description	Part Number
Insert 2 x RJ-45 Category 6 Ethernet	1711801-X

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

AMP CO Plus Category 6 Dual RJ-45 Insert for Fast Ethernet + Voice/Data

FEATURES:

- Exchangeable system insert 2 x RJ-45

- Application:
  1 x Fast Ethernet 100Base-TX,
  1 x ISDN, xDSL or Token Ring

Pin out: 36,45 + 12,36 ; 2 x 4 pins, shielded
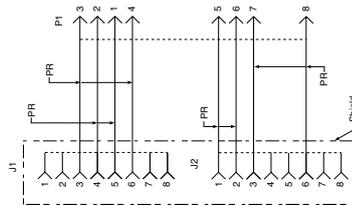
ORDERING INFORMATION

Description	Part Number
Insert 2 x RJ-45 Category 6 mixed	1711804-X

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

AMP CO Plus Broadband Insert for "Triple Play"

FEATURES:

- Exchangeable system insert with F-Series connector and 2 RJ-45

- Application: 1 x CATV + 1 x Ethernet 100Base-T + 1 x ISDN

Pin out: Balun 75Ω + 12,36 + 45; shielded

ORDERING INFORMATION

Description	Part Number
Insert F-Series + 2 x RJ-45	1711336-X

- X	Color
-1	Almond (RAL 1013)
-3	Black (RAL 9005)
-5	Pure white (RAL 9010)

Category 6 DIN Dual Outlet AMP-TWIST 6S

FEATURES:

- Category 6 Pyramid Tested (See page 215)

- Planar version: flush-mount outlet 100% compatible with standard and designer frame series

- Floor version: flat die-cast design for easy floor box mounting

- 50 x 50 mm faceplate universal fit

- Cable entry angled to avoid bending

- LSA+™ compatible blocks

- Universal label for TIA 568 A or TIA 568 B wiring

- Protected PCB

ORDERING INFORMATION

Description	Ports	Part Number
Planar outlet	2	Y-336675-1
Planar outlet	1	Y-1711088-1
Floor outlet	2	Y-336539-1

Y-	Color
1-	Almond (RAL 1013)
2-	Pure white (RAL 9010)

IP 44 – Industrial Dual Outlet Kit AMP-TWIST 6S

FEATURES

- Lockable shielded Installation Kit IP 44 (1 pair of keys included)

- Spray water proof

- Dual outlet for industrial and semi industrial environments

- Pre-loaded with either die-cast dual outlet or 2 discrete SL jacks

- Robust and ball-safe wallmount housing (acc. DIN 18032)

- Supports 10 Gigabit Ethernet

- Each box equipped with a different lock

- Locking kits to reduce number of required keys are available

Color: light grey (RAL 7035)

ORDERING INFORMATION

Description	Part Number
IP 44 box with AMP-TWIST 6S Floor die-cast outlet	1711357-1
IP 44 box with 2 AMP-TWIST 6S SL Jacks	1711474-1
Set of 6 identical locks with keys	1711554-1

AMP-TWIST 7ₐS to AMP-TWIST 7ₐS Patch Cord

FEATURES:

- Slim line design for High-Density solutions
- Category 7ₐ S/FTP stranded cable
- LSZH sheath
- Black boot on AMP-TWIST 7ₐS plug

Y - X	Length
1- -1	0.5 m
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
White	4	Category 7A	Y-1711637-X

AMP-TWIST 7ₐS to RJ-45 Patch Cord

FEATURES:

- Slim line design for High-Density solutions
- Category 7 S/FTP stranded cable
- LSZH sheath
- Black boot on AMP-TWIST 7ₐS plug

Y - X	Length
1- -1	0.5 m
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
White	4	Category 6ₐ	Y-336488-X

AMP-TWIST 7ₐS (2 Pair) to RJ-45 Patch Cord

FEATURES:

- Slim line design for High-Density solutions
- Stranded shielded cable
- LSZH sheath
- Black boot on AMP-TWIST 7AS plug

Y - X	Length
1- -1	0.5 m
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
White	2 (Ethernet 12/36)	Category 5E	Y-1711613-X
White	2 (ISDN 36/45)	Category 5E	Y-1711618-X

AMP-TWIST 7_AS Telephone Patch Cord (1 Pair)

FEATURES:

- Slim line design for High-Density solutions
- RJ-11 to 1 pair plug acc. to IEC 61076-3-104
- LSZH sheath
- Black boot

Y - X	Length
1- -1	0.5 m
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
Black	1 (Voice Application)	Category 3	Y-1711623-X

AMP-TWIST 7_AS CATV Patch Cord (1 Pair)

FEATURES:

- Slim line design for High-Density solutions
- PAL or male F-Series connector with integrated balun to 1 pair plug acc. to IEC 61076-3-104
- Category 7A S/FTP stranded cable
- LSZH sheath
- Black boot

Y - X	Length
1- -1	0.5 m
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
Green	1 (Coax with Balun)	CATV	Y-1711659-X
Green	1 (F-conn with Balun)	CATV	Y-1711624-X

AMP-TWIST 7_AS Single End Patch Cord

FEATURES:

- Slim line design for High-Density solutions
- Category 7$_A$ S/FTP stranded cable
- LSZH sheath
- Black boot on AMP-TWIST 7AS plug

Y - X	Length
0- -5	5.0 m
1- -4	7.5 m
1- -0	10.0 m
1- -5	15.0 m
2- -0	20.0 m

Other lengths on request!

For more Information see page 215

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
White	4	Category 7$_A$	Y-1711580-X

Category 7$_A$ ARJ-45 Patch Cord

FEATURES:

- Ideal for installations in combination with AMP CO Plus ARJ-45 Category 7$_A$
- Category 7$_A$ S/FTP stranded cable
- ARJ-45 plug acc. to IEC 60603-7-7
- LSZH sheath

Y - X	Length
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

For more Information see page 215

ORDERING INFORMATION

Description	Pairs	Performance	Part Number
ARJ-45 to ARJ-45	White	Category 7$_A$	Y-1711563-X
ARJ-45 to RJ-45	White	Category 6$_A$	Y-1711564-X

TE connectivity

Shielded Twisted Pair (STP) Cabling Systems
Patch Cords

Category 6$_A$ S/FTP Patch Cord

FEATURES:

- Meets Category 6$_A$ performance standard
- Category 7 S/FTP stranded cable
- LSZH sheath
- Color-matched snagless boots
- Universal B-wiring

Y - X	Length
1- -1	0.5 m
0- -1	1.0 m
0- -2	2.0 m
0- -3	3.0 m
0- -5	5.0 m
1- -0	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Part Number
White	Y-1711815-X
Blue	Y-1711816-X
Grey	Y-1711817-X
Yellow	Y-1711818-X
Green	Y-1711820-X

Category 6 F/UTP Patch Cord

FEATURES:

- Category 6 F/UTP stranded cable
- LSZH sheath

Y - X	Length
0- -1	1.5 m
0- -6	2.0 m
0- -3	4.0 m
0- -4	6.0 m
1- -1	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Part Number
White/White boot	Y-1427226-X
White/Grey boot	Y-1427266-X
White/Yellow boot	Y-1427267-X
White/Red boot	Y-1427268-X
White/Blue boot	Y-1427269-X

2. Shielded Twisted Pair (STP) Cabling System

Category 5e F/UTP Patch Cord

FEATURES:

- Category 5e according to ISO/IEC 11801 and EN 50173-1
- 4 Pair stranded F/UTP cable
- LSZH sheath
- Color-matched snagless boots
- TIA/EIA T568B Wiring

Y - X	Length
0- -9	0.5 m
0- -5	1.0 m
0- -6	2.0 m
0- -7	3.0 m
0- -8	5.0 m
1- -1	10.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Part Number F/UTP
White	Y-1427290-X
Blue	Y-1427288-X
Grey	Y-1427305-X
Yellow	Y-1427275-X
Red	Y-1427289-X
Green	Y-1427274-X

EtherSeal Category 5e SF/UTP Patch Cord

FEATURES:

- Category 5e and IP67 compliant
- SF/UTP shielded (foil and braid)
- Utilizes EtherSeal, industrial grade Category 5E cable
- Factory-terminated and tested for quality
- Push-On and Twist Off Mating Action
- Blind mate with Polarized Keying
- Tactile feedback confirms full mating
- Optional Plug Cap with available tether

Color: Grey

ORDERING INFORMATION

Description	Part Number
EtherSeal to EtherSeal	Y-1479603-X
EtherSeal to Standard RJ-45	Y-1479604-X
Plug Cap with tether	1479592-2

Y - X	Length
0- -3	0.9 m
0- -5	1.5 m
0- -7	2.1 m
1- -0	3.0 m
1- -5	4.5 m

Other lengths on request!

TE connectivity

AMP-TWIST 7$_A$S Consolidation Point Transition Cable Assemblies

FEATURES:

- Assembly to connect the work area outlet with the consolidation or transition point

- Saves time and money on moves, adds and changes

- Slim line design for High-Density solutions

- According to ISO/IEC 11801

- Category 7$_A$ S/FTP solid cable acc. to IEC 61156-7

- LSFRZH sheath

Color: White

Y - X	Length
0- -5	5.0 m
1- -4	7.5 m
1- -0	10.0 m
1- -5	15.0 m
2- -0	20.0 m
3- -0	30.0 m

Other lengths on request!
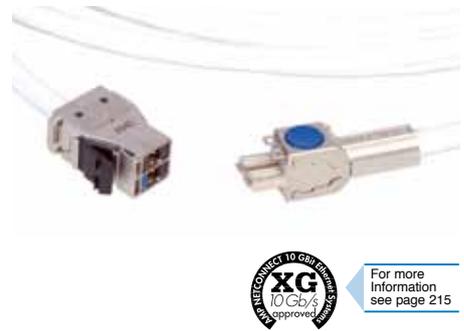
ORDERING INFORMATION

Description	Performance	Part Number
AMP-TWIST 7$_A$S SL jack to AMP-TWIST 7$_A$S plug	Class FA	Y-1711579-X

AMP-TWIST 6S to AMP-TWIST 7$_A$S Consolidation Point Transition Cable Assemblies

FEATURES:

- Assembly to connect the work area outlet with the consolidation or transition point

- Saves time and money on moves, adds and changes

- According to ISO/IEC 11801

- Category 7 S/FTP solid cable acc. to IEC 61156-5 and EN 50288-4-1

- LSFRZH sheath

- Universal wiring

Color: White

Y - X	Length
0- -5	5.0 m
1- -4	7.5 m
1- -0	10.0 m
1- -5	15.0 m
2- -0	20.0 m
3- -0	30.0 m

Other lengths on request!
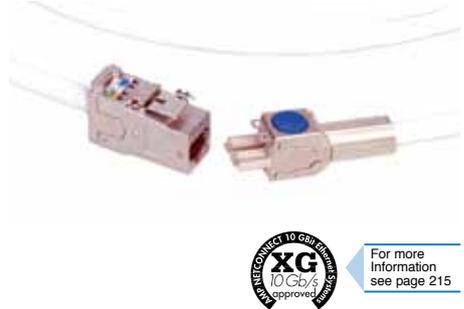
ORDERING INFORMATION

Description	Performance	Part Number
AMP-TWIST 6S SL jack to AMP-TWIST 7$_A$S plug	Class EA	Y-1711666-X

2. Shielded Twisted Pair (STP) Cabling System

AMP-TWIST 6S Consolidation Point Transition Cable Assemblies

FEATURES:

- Assembly to connect the work area outlet with the consolidation or transition point

- Saves time and money on moves, adds and changes

- According to ISO/IEC 11801

- Category 7 S/FTP stranded cable according to IEC 61156-6 and EN 50288-4-2

- LSZH sheath

- Universal wiring

Color: White

Y - X	Length
0- -5	5.0 m
1- -4	7.5 m
1- -0	10.0 m
1- -5	15.0 m
2- -0	20.0 m
3- -0	30.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Performance	Part Number
AMP-TWIST 6S SL jack to RJ-45 plug	Class EA	Y-1711420-X

Category 6$_A$ F/UTP Solid Consolidation Cords

FEATURES:

- Meets Category 6$_A$ performance standard

- Category 6$_A$ F/UTP solid cable

- LSZH sheath

- Color-matched snagless boots

- Patch cord RJ-45 to RJ-45 Category 6$_A$

Color: White

Y - X	Length
1- -0	10.0 m
1- -2	12.0 m
1- -4	14.0 m
2- -0	20.0 m
3- -0	30.0 m

Other lengths on request!

ORDERING INFORMATION

Description	Part Number
White	Y-1859352-X

TE connectivity

AMP-TWIST 7$_A$S SL Jack

FEATURES:

- 4 chamber connector, fully compatible to IEC 61076-3-104 Ed. 2, 1000 MHz

- Class FA/Category 7$_A$ acc. ISO/IEC 11801

- Quick Termination (< 2 minutes) using TE's AWC-technique

- Optional colored dust covers available

ORDERING INFORMATION

Description	Part Number
Category 7$_A$ die-cast Jack with dust cover, 180° exit	1711441-1
Category 7$_A$ die-cast Jack without dust cover, 180° exit	1711437-1
Colored dust cover (in bag of 50 pieces)	1-1711481-X

- X	Color
-6	Blue
-7	Red
-8	Yellow
-9	Green

Other lengths on request!

AMP-TWIST 6$_A$S SL Jack

FEATURES:

- Termination time less than 1 minute (using TE's AWC technique)

- Patented shield clamp with integrated strain relief

- Meets and exceeds Category 6$_A$ component specifications of ISO/IEC 11801 edition 2.1 Amendment 2 (April 2009) and ANSI/TIA-568-C.2

- Available with or without dust cover

- Available as DIN Rail Kit

- Optional colored dust covers available

ORDERING INFORMATION

Description	Part Number
Category 6$_A$ die-cast Jack with dust cover	1711592-1
Category 6$_A$ die-cast Jack without dust cover	1711716-1
Colored dust cover (bag of 50 pieces)	1-1711691-X

- X	Color
-6	Blue
-7	Red
-8	Yellow
-9	Green

Other lengths on request!

2. Shielded Twisted Pair (STP) Cabling System

Shielded Twisted Pair (STP) Cabling Systems
Connectivity

AMP-TWIST 6S SL Jack

FEATURES:

- Termination time less than 1 minute
  (using TE's AWC technique)

- Patented shield clamp with integrated strain relief

- Available with rear (180°) or side (90°) cable exit

- Available with or without dust cover

- Available as DIN Rail Kit

- Optional colored dust covers available

ORDERING INFORMATION

Description	Part Number
Category 6 die-cast Jack with dust cover, 180° exit	1711160-2
Category 6 die-cast Jack without dust cover, 180° exit	1711342-2
Category 6 die-cast Jack with dust cover, 90° exit	1711295-2
Category 6 die-cast Jack without dust cover, 90° exit	1711343-2
DIN Rail Adaptor Kit incl. 1 Jack (with dust cover, 180° exit) and 2 cable ties	1711501-1
DIN Rail adapter covers (left and right)	1711658-2
Colored dust cover (bag of 50 pieces)	1-1711511-X

- X	Color
-6	Blue
-7	Red
-8	Green
-9	Yellow

Other lengths on request!

SL Series 110Connect Jacks

FEATURES:

- Universal wiring – T568 A or B wiring pattern

- Available with 180° or 90° cable exit
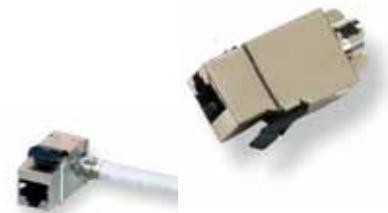
ORDERING INFORMATION

Description	Part Number
Category 6 with straight cable exit (180°)	1375188-1
Category 6 with lateral cable exit (90°)	1479552-1
Category 5E with straight cable exit (180°)	1375189-1
Category 5E with lateral cable exit (90°)	1479717-1

TE
connectivity

SL Series Toolless Jacks

FEATURES:

- Terminated with common pliers

- Hinged stuffer cap simplifies assembly

- Universal wiring – T568 A or B wiring pattern

- For AWG 24 cables only

ORDERING INFORMATION

Description	Part Number
Category 5E	1339015-1

EtherSeal Jack and Coupler Kits

FEATURES:

- Category 6 or 5E and IP67 compliant, shielded

- Front-loading into enclosures and outlets

- Push-On and Twist-Off Mating Action, confirmed by tactile feedback

- Blind mate with Polarized Keying

- Optional Outlet Cap with tether available

ORDERING INFORMATION

Description	Part Number
Category 6 SL Series 110Connect Modular Jack Kit	1479566-2
Category 5E SL Series 110Connect Modular Jack Kit	1479564-2
Category 5E SL Series Toolless Modular Jack Kit	1479562-2
Category 5E SL Series In-Line Coupler Kit	1479600-2
Jack/Outlet Cap	1479591-2

RJ-45 Dust Cap

FEATURES:

- Re-usable rubber dustcaps

- Fits in all RJ 45 Jacks

- Available in 7 colors

- X	Color
-1	Red
-2	Yellow
-3	Green
-4	Blue
-5	Black
-6	Grey
-7	White

Other lengths on request!

ORDERING INFORMATION

Description	Part Number
RJ-45 dust cap	969556-X

High Density ACO Single-Port Patch Panel Kit Part Number   1479834-1

FEATURES:

- ACO Inserts sold separately

- Preloaded with shielded Category 6 single-port connector housings

- Provides a high density solution for ACO Patching - 24 Ports in 2U

- Kit includes:

- Unlocking tool

  - Faceplates

  - Edge connectors

  - Rear covers

- Dimensions:
  2U (3.50") H x 19.0" W x 2.17" D

Front

Back

3. Fiber Optic (FO) Cabling Systems

Technical Data

XG 10Gb/s approved

For all
OM3 XG
system
cables

Multimode Fibers

ISO/IEC 11801 and EN 50173		Overfill Bandwidth (MHz x km)		Max. Link Length for 1 GBit/s (m)		Max. Link Length for 10 GBit/s (m)		Fiber Attenuation (dB/km)	
		850 nm	1300 nm	850 nm (1000Base-SX)	1300 nm (1000Base-LX)	850 nm (10GBase-SR) (10GBase-SW)	1300 nm (10GBase-LX4)	850 nm	1300 nm
OM1	62,5 µm	≥ 200	≥ 600	275	550*	33	360*	≤ 2.9	≤ 0.7
OM2	50 µm	≥ 500	≥ 500	550	550*	82	300*	≤ 2.4	≤ 0.6
OM3 (XG)	50 µm	≥ 1500	≥ 500	1000	600	300	300	≤ 2.7	≤ 0.7
OM4	50 µm	≥ 3500	≥ 500	1040	600	550	300	≤ 2.7	≤ 0.7

* Mode Conditioning Patchcords required

Singlemode Fibers

ISO/IEC 11801 and EN 50173		Chromatic Dispersion (ps/nm x km)		Cut-off Wavelength, cabled (nm)	Point Discontinuity (dB)	Fiber Attenuation (dB/km)		
		1310 nm	1550 nm			1310 nm	1380–1386 nm	1550 nm
OS2 (ITU-T G.652d)	9 µm	≤ 3.5	≤ 18.0	≤ 1260	≤ 0.1	≤ 0.34	≤ 0.34	≤ 0.22

Geometrical Fiber Properties

Fiber Type	Core/Mode-field (µm)	Cladding (µm)	Coating (µm)
OM1, OM1 Plus	62.5 ± 3	125 ± 2	245 ± 10
OM2, OM2 Plus, OM3 (XG), OM4	50 ± 3	125 ± 2	245 ± 10
OS2	9.2 ± 0.4	125 ± 1	245 ± 5

Optical Cable Specifications

	Maximum Attenuation (dB/km)			
	Loose Tube		Tight Buffered	
Multimode	850 nm	1300 nm	850 nm	1300 nm
50/125	3.5	1.5	3.5	1.5
62,5/125	3.5	1.5	3.5	1.5
Singlemode	1310 nm	1550 nm	1310 nm	1550 nm
9/125	0.36	0.23	0.44	0.44

TE connectivity

3. Fiber Optic (FO) Cabling System

Fiber Cable Performance

Optical Fiber Cable Temperature Ranges

		Riser	LSZH
Interconnect	Storage	-40°C to +70°C	-10°C to +70°C
(Tight Buffered) Cables	Operating	-20°C to +70°C	-10°C to +70°C
	Installation	-10°C to +60°C	-5°C to +70°C
Indoor, Distribution	Storage	-40°C to +70°C	-20°C to +70°C
(Tight Buffered) Cables	Operating	-20°C to +70°C	-10°C to +70°C
	Installation	-10°C to +60°C	-5°C to +50°C
	Storage	-40°C to +70°C	-10°C to +60°C
Indoor/Outdoor Cables	Operating	-20°C to +70°C	-10°C to +60°C
	Installation	-10°C to +60°C	-5°C to +50°C
	Stranded Cables		
	Storage	-40°C to +70°C	
OSP (Loose Tube) Cables	Operating	-40°C to +70°C	
	Installation	-20°C to +60°C	

Fiber Optic (FO) Cabling Systems

System Cables

Horizontal, 2-4 Fiber (OFNR, PVC)

FEATURES:

- Suitable for direct termination with epoxy/polish, LightCrimp, LightCrimp PLUS and MT-RJ jacks

- Blue, green, red and yellow Dual and Quad multimode cables for MT-RJ SECURE Networks or network segregation

- Aramid yarn reinforcement

- UL and cUL listed OFNR (Riser)

2-Fiber

Fiber
Tight Buffering (900μm)
Aramid Strength Members
Outer Jacket

4-Fiber

Fiber
Tight Buffering (900μm)
Aramid Strength Members
Outer Jacket
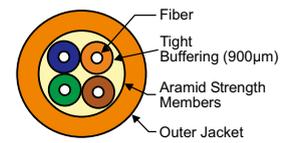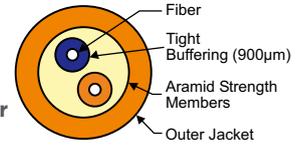
- X	Reel Size
1-	1 Kilometer
2-	2 Kilometer

Fiber Count	Unit Count Unit (Fibers/Unit)	Fiber Type	UL/NEC Ratings	Jacket Color	Part Number	Weight kg/km (ib/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radiusmm (in)	
								Installation	Long Term	Installation	Long Term
2-Fiber (Dual)											
2	1(2)	Singlemode	Riser	Yellow	X-1859416-4	17 (11)	4.8 (0.19)	660 (150)	198 (45)	96 (3.8)	48 (1.9)
		Multimode 50/125 μm	Riser	Orange	X-1859416-2	17 (11)					
		Multimode 50/125 μm OM3	Riser	Aqua	X-1859416-3	17 (11)					
		Multimode 50/125 μm OM4	Riser	Aqua	X-1859416-5	17 (11)					
		Multimode 62.5/125 μm	Riser	Orange	X-1859416-1	17 (11)					
4-Fiber (Quad)											
4	1(4)	Singlemode	Riser	Yellow	X-1859417-4	19 (13)	4.8 (0.19)	660 (150)	198 (45)	96 (3.8)	48 (1.9)
		Multimode 50/125 μm	Riser	Orange	X-1859417-2	19 (13)					
		Multimode 50/125 μm OM3	Riser	Aqua	X-1859417-3	19 (13)					
		Multimode 50/125 μm OM4	Riser	Aqua	X-1859417-5	19 (13)					
		Multimode 62.5/125 μm	Riser	Orange	1-1859417-1	19 (13)					

TE connectivity

Fiber Optic (FO) Cabling Systems
System Cables

Indoor Distribution, 6-24 Fiber (OFNR, PVC)

FEATURES:

- Suitable for horizontal and in-building backbone cabling and for direct termination with epoxy/polish, LightCrimp, LightCrimp PLUS and MT-RJ jacks

- Strippable 900 µm tight buffer coating allows for easy connectorization

- TIA color-coded fibers for easy identification

- UL and cUL listed OFNR (Riser)

- Outer Jacket Color:

  - Singlemode: Yellow

  - 50/125 and 62.5/125µm: Orange

  - XG 50/125 µm: Aqua (OM3, OM4)

X-	Reel size
1-	1 Kilometer
2-	2 Kilometer

Fibers
Tight Buffering (900µm)
Strength Members
Outer Jacket
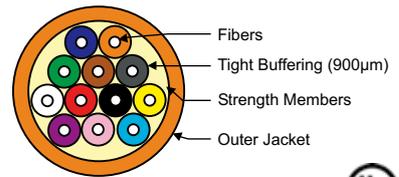
Distribution Cables

Fiber	Unit Count Unit (Fibers/Unit)	Fiber Type	UL/NEC Ratings	Part Number
6	1 (6)	Singlemode	Riser	X-1859418-4
		Multimode 50/125 µm	Riser	X-1859418-2
		Multimode 50/125 µm OM3	Riser	X-1859418-3
		Multimode 50/125 µm OM4	Riser	X-1859418-5
		Multimode 62.5/125 µm	Riser	X-1859418-1
8	1 (8)	Singlemode	Riser	X-1859419-4
		Multimode 50/125 µm	Riser	X-1859419-2
		Multimode 50/125 µm OM3	Riser	X-1859419-3
		Multimode 50/125 µm OM4	Riser	X-1859419-5
		Multimode 62.5/125 µm	Riser	X-1859419-1
12	1 (12)	Singlemode	Riser	X-1859420-4
		Multimode 50/125 µm	Riser	X-1859420-2
		Multimode 50/125 µm OM3	Riser	X-1859420-3
		Multimode 50/125 µm OM4	Riser	X-1859420-5
		Multimode 62.5/125 µm	Riser	X-1859420-1
24	1 (24)	Singlemode	Riser	X-1859421-4
		Multimode 50/125 µm	Riser	X-1859421-2
		Multimode 50/125 µm OM3	Riser	X-1859421-3
		Multimode 50/125 µm OM4	Riser	X-1859421-5
		Multimode 62.5/125 µm	Riser	X-1859421-1

Indoor Distribution, 36-72 Fiber (OFNR, PVC)

FEATURES:

- Suitable for horizontal and in-building backbone cabling and for direct termination with epoxy/polish, LightCrimp, LightCrimp PLUS and MT-RJ jacks

- Hybrid cables (with Singlemode and multimode fibers) are available to provide a built-in migration path for future applications that will require Singlemode fibers

- Strippable 900 µm tight buffer coating allows for easy connectorization

- TIA color-coded fibers for easy identification

- UL and cUL listed OFNR (Riser)

- Outer Jacket Color:

  - Singlemode: Yellow

  - 50/125 and 62.5/125 µm Orange

  - XG 50/125 µm Aqua (OM3, OM4)

Dielectric Central Strength Member
Fibers
Tight Buffering (900µm)
Strength Members
Protective Jacket
Binder
Outer Jacket
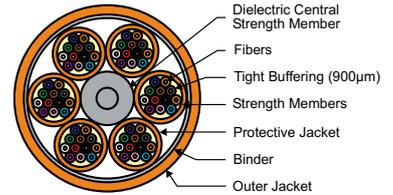
Multi-unit Distribution Cables

Fiber Count	Unit Count Unit (Fibers/Unit)	Fiber Type	UL/NEC Ratings	Part Number
		Singlemode	Riser	X-1859422-4
		Multimode 50/125 µm	Riser	X-1859422-2
		Multimode 50/125 µm OM3	Riser	X-1859422-3
36	6 (6)	Multimode 50/125 µm OM4	Riser	X-1859422-5
		Multimode 62.5/125 µm	Riser	X-1859422-1
		Singlemode	Riser	X-1859423-4
		Multimode 50/125 µm	Riser	X-1859423-2
		Multimode 50/125 µm OM3	Riser	X-1859423-3
48	4 (12)	Multimode 50/125 µm OM4	Riser	X-1859423-5
		Multimode 62.5/125 µm	Riser	X-1859423-1
		Singlemode	Riser	X-1859424-4
		Multimode 50/125 µm	Riser	X-1859424-2
		Multimode 50/125 µm OM3	Riser	X-1859424-3
72	6 (12)	Multimode 50/125 µm OM4	Riser	X-1859424-5
		Multimode 62.5/125 µm	Riser	X-1859424-1

Fiber Optic (FO) Cabling Systems
System Cables

MECHANICAL SPECIFICATIONS

Fiber Count (Units x Fibers/Unit)	Flame Rating	O.D. mm(in)	Sub Unit O.D. mm (in)	Minimum Bend Radius		Normal Weight kg/km (1bs/1,000ft)	Rating Tensile Load	
				Install mm (in)	Long Term mm (in)		Install	Long Term
							N (1bf)	N (1bf)
6 (1 x 6)	OFNR	4.8 ± 0.2 (0.19 ± 0.01)	N/A	96 (3.8)	48 (1.9)	21 (14)	660 (150)	198 (45)
8 (1 x 8)	OFNR	5.4 ± 0.2 (0.21 ± 0.01)	N/A	108 (4.3)	54(2.1)	26 (17)	660 (150)	198 (45)
12 (1 x 12)	OFNR	6.2 ± 0.2 (0.24 ± 0.01)	N/A	124 (4.9)	62 (2.4)	32 (22)	660 (150)	198 (45)
24 (1 x 24)	OFNR	8.8 ± 0.2 (0.35 ± 0.01)	N/A	176 (6.9)	88 (3.5)	60 (40)	1320 (300)	396 (90)
36 (6 x 6)	OFNR	17.6 ± 1.0 (0.69 ± 0.04)	4.8 ± 0.2 (0.19 ± 0.01)	352 (13.9)	176 (6.9)	257 (173)	1320 (300)	396 (90)
48 (4 x 12)	OFNR	18.0 ± 1.0 (0.71 ± 0.04)	6.0 ± 0.2 (0.24 ± 0.01)	360 (14.2)	180 (7.1)	236 (159)	1320 (300)	396 (90)
72 (6 x 12)	OFNR	21.6 ± 1.0 (0.85 ± 0.04)	6.0 ± 0.2 (0.24 ± 0.01)	432 (17.0)	216 (8.5)	357 (240)	1320 (300)	396 (90)

Zip Twin Cable (LSZH)

FIRE PERFORMANCE
Sheathing materials for internal cables comply fully with the following standards:

ASPECT	NORM
Flammability	IEC 60332 Parts 1 and 3
Smoke Emission	IEC 61034 Parts 1 and 2
Acid Gas Emission	IEC 6075 Parts 1 and 2
Toxicity	NES 713

FEATURES:

- Low Smoke Zero Halogen (LSZH)

- Available buffer designs: Tight-Buffer or Easistrip

- Fiber categories: OM1, OM2, OM3 (XG), OM4, OS2

- Tight buffer versions suitable for TE Connectivity Quick Termination Products

- Easistrip suitable for fusion splice and epoxy techniques

LSZH sheath
Aramid strength members
0,9 mm buffered optical fiber

ORDERING INFORMATION

Description

Fiber Count	Cable Type	Part Number
2	Zip Twin TB	Y-599142-X
2	Zip Twin ES	Y-599192-X

TB = Tight Buffered Construction
ES = Easistrip (providing 30 cm stripping)
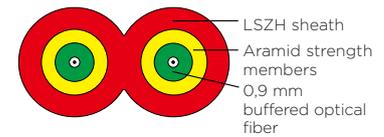
-X	Fiber Category
-2	OM4
-3	OM3 (XG)
-4	OS2
-5	OM1
-7	OM2

Y-	Reel Size
1-	1 Kilometer
2-	2 Kilometer

MECHANICAL PERFORMANCE

Fiber Count	Overall-Ø (mm)	Weight (kg/km)	Installation tension max. during installation (N)	Crush resistance (N)	Minimum bend radius during installation (mm)
ZipTwin	2.5 x 5.0	14	300	1000	40

PACKAGING

Fiber Count	Reel type	Reel Dimensions	
		Flange (mm)	Traverse (mm)
ZipTwin	P6	600	400

TE connectivity

Fiber Optic (FO) Cabling Systems
System Cables

Indoor Distribution Cable (ULSZH)

FEATURES:

- Universal Low Smoke Zero Halogen (ULSZH)

- For indoor and outdoor applications

- Suitable for backbone and Fiber-to-the-Desk

- Increased strength and durability

- Tight-Buffer construction

- Suitable for all termination techniques

- Fiber categories: OM1, OM2, OM3 (XG), OM4, OS2

- Available fiber count: 4–48

- Option: water swelling E-glass yarns providing rodent resistance and moisture protection

ULSZH sheath
Aramid strength members
0,9 mm buffered optical fiber
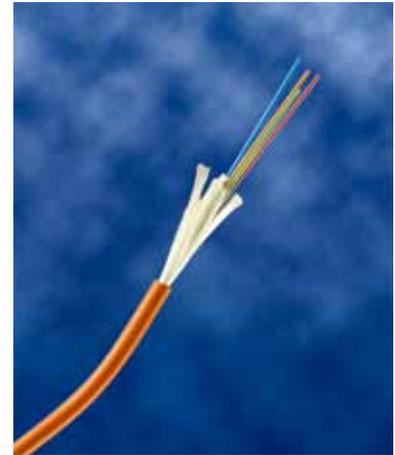
Fiber Count	Part Number
4	Y-599144-X
6	Y-599145-X
8	Y-599146-X
12	Y-599148-X
16	Y-599149-X
24	Y-1716029-X
36	Y-599602-X
48	Y-599603-X

-X	Fiber Category
-2	OM4
-3	OM3 (XG)
-4	OS2
-5	OM1
-7	OM2
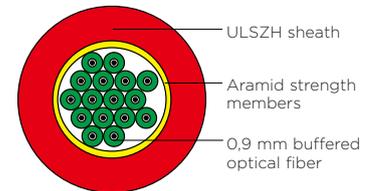
Y-	Reel Size
1-	1 Kilometer
2-	2 Kilometer

MECHANICAL PERFORMANCE

Fiber Count	Overall-Ø (mm)	Weight (kg/km)	Installation tension max. during installation (N)	Crush resistance (N)	Minimum bend radius during installation (mm)
4	5	27	650	2000	75
6	6	33	1000	2000	90
8	6	35	1000	2000	90
12	7.5	56	1000	2000	115
16	8	61	1000	2000	110
24	14.6	206	1500	2000	280
36	17	280	2000	2000	430
48	17.3	240	2000	2000	430

PACKAGING

Fiber Count	Reel Type	Reel Dimensions	
		Flange (mm)	Traverse (mm)
4	P6	600	400
6, 8, 12	P8	860	400
16	P10	1000	500
24	P12	1200	500
36, 48	P14	1400	700

Internal/External Loose Tube Cable 4-144 Fiber (LSZH)

FEATURES:

- Low Smoke Zero Halogen (LSZH)

- LDPE sheath upon request

- For indoor and outdoor applications

- For use in ducts applications

- Non-metallic with peripheral strength members

- Water swelling E-glass yarn (moisture protection)

- Dry core technology applied for fiber count more than 12

- Loose tube construction

- Suitable for all termination techniques

- Fiber categories: OM1, OM2, OM3 (XG), OM4, OS2

- Available fiber count: 4-144 (higher fiber count upon request)

Y-	Reel size
1-	1 Kilometer
2-	2 Kilometer

Ripcords (2), ULSZH sheath, Water blocking E-glass strength members, Loose tube, Optical fiber, Ripcords (2)
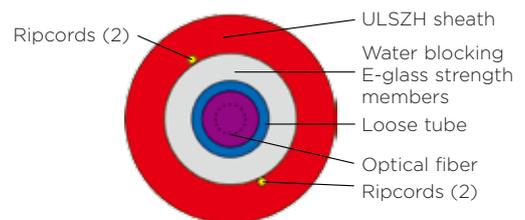
Fiber Count	Fiber Type	Cable Jacket	Part Number
4	Singlemode	LSZH	X-1427436-4
	Multimode 50/125 µm	LSZH	X-1427436-2
	Multimode 50/125 µm OM3	LSZH	X-1427436-3
	Multimode 50/125 µm OM4	LSZH	X-1427436-5
	Multimode 62.5/125 µm	LSZH	X-1427436-1
6	Singlemode	LSZH	X-1427437-4
	Multimode 50/125 µm	LSZH	X-1427437-2
	Multimode 50/125 µm OM3	LSZH	X-1427437-3
	Multimode 50/125 µm OM4	LSZH	X-1427437-5
	Multimode 62.5/125 µm	LSZH	X-1427437-1

Fiber Count	Fiber Type	Cable Jacket	Part Number
8	Singlemode	LSZH	X-1427438-4
	Multimode 50/125 µm	LSZH	X-1427438-2
	Multimode 50/125 µm OM3	LSZH	X-1427438-3
	Multimode 50/125 µm OM4	LSZH	X-1427438-5
	Multimode 62.5/125 µm	LSZH	X-1427438-1
12	Singlemode	LSZH	X-1427439-4
	Multimode 50/125 µm	LSZH	X-1427439-2
	Multimode 50/125 µm OM3	LSZH	X-1427439-3
	Multimode 50/125 µm OM4	LSZH	X-1427439-5
	Multimode 62.5/125 µm	LSZH	X-1427439-1

Ordering information continues next page.

Fiber Count	Fiber Type	Cable Jacket	Part Number
24	Singlemode	LSZH	X-1427441-4
	Multimode 50/125 μm	LSZH	X-1427441-2
	Multimode 50/125 μm OM3	LSZH	X-1427441-3
	Multimode 50/125 μm OM4	LSZH	X-1427441-5
	Multimode 62.5/125 μm	LSZH	X-1427441-1
48	Singlemode	LSZH	X-1427442-4
	Multimode 50/125 μm	LSZH	X-1427442-2
	Multimode 50/125 μm OM3	LSZH	X-1427442-3
	Multimode 50/125 μm OM4	LSZH	X-1427442-5
	Multimode 62.5/125 μm	LSZH	X-1427442-1
72	Single-mode	LSZH	X-1427457-4
	Multimode 50/125 μm	LSZH	X-1427457-2
	Multimode 50/125 μm OM3	LSZH	X-1427457-3
	Multimode 50/125 μm OM4	LSZH	X-1427457-5
	Multimode 62.5/125 μm	LSZH	X-1427457-1

Fiber Count	Fiber Type	Cable Jacket	Part Number
96	Single-mode	LSZH	X-1427458-4
	Multimode 50/125 μm	LSZH	X-1427458-2
	Multimode 50/125 μm OM3	LSZH	X-1427458-3
	Multimode 50/125 μm OM4	LSZH	X-1427458-5
	Multimode 62.5/125 μm	LSZH	X-1427458-1
144	Single-mode	LSZH	X-1427459-4
	Multimode 50/125 μm	LSZH	X-1427459-2
	Multimode 50/125 μm OM3	LSZH	X-1427459-3
	Multimode 50/125 μm OM4	LSZH	X-1427459-5
	Multimode 62.5/125 μm	LSZH	X-1427459-1

MECHANICAL PERFORMANCE

Fiber count	No of tubes/fillers	Overall-Ø (mm)	Weight (kg/km)	Installation tension max. during installation (N)	Crush resistance (N)	Minimum bend radius during installation (mm)
4, 6, 8, 12	1	8.0	73	1800	1000	160
24, 48	5	10.8	110	2700	2000	216

Outside Plant (OSP) Dielectric, 4-48 Fiber (PE)

FEATURES:

- Suitable for inter-building backbone cabling (aerial, duct)
- TIA color-coded fibers for easy identification
- Dry core technology applied for fiber count more than 12
- UV-protected jacket for harsh outdoor environment

- Small diameter single tube construction saves space inside ducts
- Low friction jacket for ease of pulling through ducts
- All-dielectric construction
- Outer Jacket Color is Black for all Fiber Types

Y-	Reel size
1-	1 Kilometer
2-	2 Kilometer

Fibers
Water-blocked Buffer Tube
Strength Members (glass yarn)
Outer Jacket
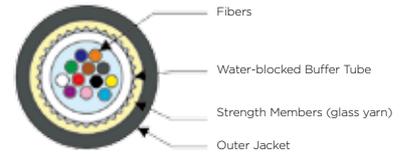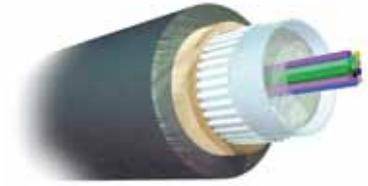
OSP Dielectric
Single Loose Tube Cable

SINGLE LOOSE TUBE

Fiber Count	Unit Count Unit (Fibers/ Unit)	Fiber Type	Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf) Installation	Long Term	Bending Radius mm (in) Installation	Long Term
4	1 (4)	Singlemode	X-1427449-4						
		Multimode 50/125µm	X-1427449-2						
		Multimode 50/125 µm OM3	X-1427449-3						
		Multimode 50/125 µm OM4	X-1427449-5						
		Multimode 62.5/125 µm	X-1427449-1						
6	1 (6)	Singlemode	X-1427450-4						
		Multimode 50/125 µm	X-1427450-2						
		Multimode 50/125 µm OM3	X-1427450-3	48 (32)	7.5 (0.30)	1500 (335)	600 (130)	150 (5.9)	75 (3.0)
		Multimode 50/125 µm OM4	X-1427450-5						
		Multimode 62.5/125 µm	X-1427450-1						
8	1 (8)	Singlemode	X-1427451-4						
		Multimode 50/125 µm	X-1427451-2						
		Multimode 50/125 µm OM3	X-1427451-3						
		Multimode 50/125 µm OM4	X-1427451-5						
		Multimode 62.5/125 µm	X-1427451-1						
12	1 (12)	Singlemode	X-1427452-4						
		Multimode 50/125 µm	X-1427452-2						
		Multimode 50/125 µm OM3	X-1427452-3						
		Multimode 50/125 µm OM4	X-1427452-5						
		Multimode 62.5/125 µm	X-1427452-1						
24	2 (12)	Singlemode	X-1427453-4						
		Multimode 50/125 µm	X-1427453-2						
		Multimode 50/125 µm OM3	X-1427453-3						
		Multimode 50/125 µm OM4	X-1427453-5						
		Multimode 62.5/125 µm	X-1427453-1						
48	4(12)	Single-mode	X-1427456-4	92 (62)	11.2 (0.44)	2700 (600)	890 (200)	224 (8.8)	112 (4.4)
		Multimode 50/125 µm	X-1427456-2						
		Multimode 50/125 µm OM3	X-1427456-3						
		Multimode 50/125 µm OM4	X-1427456-5						
		Multimode 62.5/125 µm	X-1427456-1						

3. Fiber Optic (FO) Cabling System

TE connectivity

Outside Plant (OSP) Armored, 4-12 Fiber (PE)

FEATURES:

- Suitable for inter-building backbone cabling (aerial, duct or direct buried)

- TIA color-coded fibers for easy identification

- Small diameter single tube construction saves space inside ducts

- UV-protected jacket for harsh outdoor environment

- Low friction jacket for ease of pulling through ducts

- Corrugated steel tape armor for rugged environments and rodent protection

- Outer Jacket Color is Black for all Fiber Types

Fibers
Water-blocked Buffer Tube
Water- Blocking filling compound
Strength Members (glass yarn)
Corrugated Armor
Outer Jacket

OSP Armored Single Loose Tube Cable

Y-	Reel size
1-	1 Kilometer
2-	2 Kilometer

ARMORED SINGLE LOOSE TUBE

Fiber Count	Unit Count Unit (Fibers/ Unit)	Fiber Type	Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf) Installation	Long Term	Bending Radius mm (in) Installation	Long Term
4	1 (4)	Singlemode	X-1427431-4						
		Multimode 50/125 µm	X-1427431-2						
		Multimode 50/125 µm OM3	X-1427431-3						
		Multimode 50/125 µm OM4	X-1427431-5						
		Multimode 62.5/125 µm	X-1427431-1						
6	1 (6)	Singlemode	X-1427432-4						
		Multimode 50/125 µm	X-1427432-2						
		Multimode 50/125 µm OM3	X-1427432-3						
		Multimode 50/125 µm OM4	X-1427432-5						
		Multimode 62.5/125 µm	X-1427432-1	107 (72)	10.3 (0.41)	2700 (600)	890 (200)	206 (8.1)	103 (4.1)
8	1 (8)	Singlemode	X-1427433-4						
		Multimode 50/125 µm	X-1427433-2						
		Multimode 50/125 µm OM3	X-1427433-3						
		Multimode 50/125 µm OM4	X-1427433-5						
		Multimode 62.5/125 µm	X-1427433-1						
12	1 (12)	Singlemode	X-1427434-4						
		Multimode 50/125 µm	X-1427434-2						
		Multimode 50/125 µm OM3	X-1427434-3						
		Multimode 50/125 µm OM4	X-1427434-5						
		Multimode 62.5/125 µm	X-1427434-1						

Outside Plant (OSP) Armored, 24-144 Fiber

FEATURES:

- Suitable for inter-building backbone cabling (aerial, duct or direct burial)

- Dry water-blocking technology for cable core

- UV-protected jacket for harsh outdoor environment

- Low friction jacket for ease of pulling through ducts

- Corrugated steel tape for rugged environments and rodent protection

- Reverse oscillating lay construction for easy midspan access

- Hybrid cables (with Singlemode and multimode fibers) are available to provide a built-in migration path for future applications that will require Singlemode fibers

- TIA color-coded fibers and buffer tubes for easy identification

- Outer Jacket Color is Black for all Fiber Types
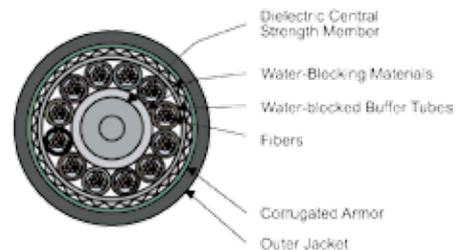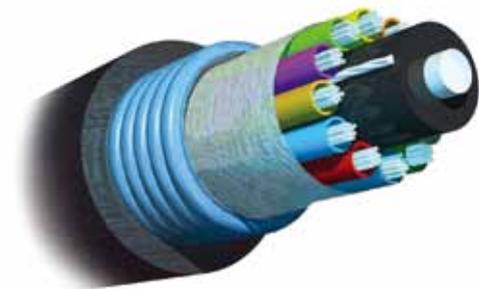
OSP Armored Stranded Loose Tube Cable

Fibre Count	Unit Count Unit (Fibers/Unit)	Fiber Type	Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf) Installation	Long Term	Bending Radius mm (in) Installation	Long Term
24	2 (12)	Singlemode	X-1427435-4	138 (93)	12.4 (0.49)	2700 (600)	890 (200)	248 (9.8)	124 (4.9)
		Multimode 50/125 µm	X-1427435-2						
		Multimode 50/125 µm OM3	X-1427435-3						
		Multimode 50/125 µm OM4	X-1427435-5						
		Multimode 62.5/125 µm							
48	4 (12)	Singlemode	X-1427444-4	138 (93)	12.4 (0.49)	2700 (600)	890 (200)	248 (9.8)	124 (4.9)
		Multimode 50/125 µm	X-1427444-2						
		Multimode 50/125 µm OM3	X-1427444-3						
		Multimode 50/125 µm OM4	X-1427444-5						
		Multimode 62.5/125 µm	X-1427444-1						
72	6 (12)	Singlemode	X-1427445-4	144 (97)	12.5 (0.49)	2700 (600)	890 (200)	250 (9.8)	125 (4.9)
		Multimode 50/125 µm	X-1427445-2						
		Multimode 50/125 µm OM3	X-1427445-3						
		Multimode 50/125 µm OM4	X-1427445-5						
		Multimode 62.5/125 µm	X-1427445-1						
96	6 (12)	Singlemode	X-1427446-4	176 (118)	14.0 (0.55)	2700 (600)	890 (200)	280 (11.0)	140 (5.5)
		Multimode 50/125 µm	X-1427446-2						
		Multimode 50/125 µm OM3	X-1427446-3						
		Multimode 50/125 µm OM4	X-1427446-5						
		Multimode 62.5/125 µm	X-1427446-1						
144	12 (12)	Singlemode	X-1427448-4	251 (169)	17.2 (0.68)	2700 (600)	890 (200)	344 (13.54)	172 (6.77)
		Multimode 50/125 µm	X-1427448-2						
		Multimode 50/125 µm OM3	X-1427448-3						
		Multimode 50/125 µm OM4	X-1427448-5						
		Multimode 62.5/125 µm	X-1427448-1						

NOTE: Hybrid fiber count combinations are available. Call for more information.

Outside Plant (OSP) Figure 8, 4-144 Singlemode Fiber

FEATURES:

- A self supporting optical cable in a figure of 8 configuration, for aerial installation on poles (except power lines)

- Suitable for maximum 80 meters span routes, minimum sag 0.5% (worst weather condition 108km/hour wind speed, no ice)

- Recommend figure 8 cables shall be installed with a full twist, approx every 7-9 metres, to avoid Galloping.

- Jelly filled loose tubes and cable core

- UV-protected jacket for outdoor environment

- TIA color-coded fibers and buffer tubes for easy identification

- Outer Jacket Color is Black

Messenger Wire
Jacket Web
Optical Fibers
Jelly Filled Buffer Tube
FRP Strength Member
CSM Up Coating
Jelly Filled Cable Core
Polyester Tape
Outer Jacket
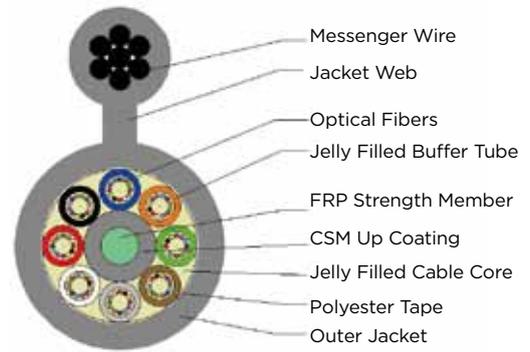
Fiber Count	Unit Count Unit (Fibers/Unit)	Part Number	O.D. mm Dia. X Height	Weight kg/km	Messenger Wire Dimension Unit Count x Unit Dia. mm	Maximum Working Tension kN (kg)	Bending Radius mm	
							Installation	Long Term
4	1 (4)	1-1859400-4						
6	1 (6)	1-1859401-4						
8	2 (6+2)	1-1859402-4	8.8 x 16.4	142	7 x 1.2	4.41 (450)	176	88
12	2 (6)	1-1859403-4						
24	4 (6)	1-1859404-1						
36	6 (6)	1-1859408-4	9.4 x 17.0	153	7 x 1.2	4.9 (500)	188	94
48	4 (12)	1-1859409-4	10.0 x 17.6	160	7 x 1.2	4.9 (500)	200	100
60	5 (12)	1-1859410-4						
72	6 (12)	1-1859411-4	10.7 x 18.3	174	7 x 1.2	5.69 (580)	214	107
96	8 (12)	1-1859412-4	12.4 x 20.3	223	7 x 1.3	6.47 (660)	248	124
144	12 (12)	1-1859413-4	15.6 x 24.4	355	7 x 1.6	9.52 (970)	312	156

3. Fiber Optic (FO) Cabling System

Hi-D Modular Fiber Optic Panel

FEATURES:

- Drawer style, 1 U, 190

- Plexi transparent cover

- 4 Quick-Fit Cutouts (for Quick-Fit modules see page 91)

- One pin splice tray fixation (splice tray NOT included, see page 88)

- Accessories for splicing, cable attachment and cable management on page 88

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Fiber Type	Part Number
Hi-D Modular FO panel	–	1-1671260-1

1U enclosure for quick fit MPO cassettes

The high density 1U enclosure accommodates up to 4 TE quick fit MPO cassettes, which supports up to 96 fibers in 1U space, and is ideal for cross connect or interconnect applications in Data Center with MPO connections.

FEATURES:

- 1U enclosure, metal, drawer type, compatible with 19" and ETSI racks

- Accepts 4 quick fit MPO cassettes

- Transparent front cover

- Slide tray can be tilted down for ease patch cord management

- Edge guard on front cable entries

- Removable top cover provides convenient access for cable installation

- Versatile rear cable management ties to hold the trunk cable in place

- Maintained cable radius inside the enclosure during and after the installation

- Rubber protector for cable insert at the rear end to prevent dust entry

Dimensions and capacity

	1U
Dimensions (mm)	
Height	225
Width	440
Depth	400
Weight (kg, unloaded)	4.8
Capacity	
Max. number of duplex SC connections (fiber)	24 (48)
Max. number of duplex LC connections (fiber)	48 (96)

Part Number

	Pairs Straight	Pairs Flipped
Enclosure (unloaded)		1427709-1
Quick fit MPOptimate cassettes(OM3,OM4	**Pairs Straight**	**Pairs Flipped**
1 X MPOptimate to 6 X LC Duplex; OM3	1671226-3	1-1671226-3
1 X MPOptimate to 6 X LC Duplex; OM4	1671226-5	1-1671226-5
1 X MPOptimate to 6 X LC Quad; OM3	1671227-3	1-1671227-3
1 X MPOptimate to 6 X LC Quad; OM4	1671227-5	1-1671227-5
1 X MPOptimate to 6 X SC Duplex; OM3	1671228-3	1-1671228-3
Quick fit MPO cassettes (SM)	**Pairs Straight**	**Pairs Flipped**
1 X MPO tp 6 X LC Duplex; SM	1671205-4	1-1671205-4
1 X MPO to 6 X LC Quad; SM	1671206-4	1-1671206-4
1 X MPO to 6 X SC Duplex; SM	1671207-4	1-1671207-4

3. Fiber Optic (FO) Cabling System

UCP Patch Panel Angled and Flushmount

FEATURES:

- 19" 1U unloaded modular patch panel with 4 UCP cutouts

- Angled and flush style panels available

- Modular rear cable bracket to manage and bundle different media cabling

- Accepts Pre-terminated Cu or FO cassettes or Field terminated Cu or FO modules

- Including grounding bolt

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
UCP Patch Panel 1U Angled	1-1671590-1
UCP Patch Panel 1U Flush	1-1671594-1

1 U Modular Fiber Optic Panel Flushmount Style

FEATURES:

- Drawer style, 1 U, 190

- Interchangeable adaptor panels (to be ordered separately)

- For Quick-Fit modules see page 91

- Plexi transparent cover

- Pull-out labelling strip

- Panels available with or without fiber adaptors (order 0-...-9 for unpopulated version)

- One pin Splice Tray fixation (splice tray NOT included, see page 88)

- For splicing accessories see page 88 for cable management see page 103

ORDERING INFORMATION

Description	Color	Part Number
Modular fiber panel – drawer	Black (RAL 9005)	1-1671262-1
Adaptor panel for 24 x ST-Style	Black (RAL 9005)	Y-1671265-X*
Adaptor panel for 24 x SC duplex	Black (RAL 9005)	Y-1671268-X
Adaptor panel for 24 x LC duplex	Black (RAL 9005)	Y-1671271-X
Adaptor panels for 4 Quick-Fit modules (see page 91)	Black (RAL 9005)	1671263-1
Modular fiber panel – drawer	Grey (RAL 7035)	1-1671262-2
Adaptor panel for 24 x ST-Style	Grey (RAL 7035)	Y-1671266-X*
Adaptor panel for 24 x SC duplex	Grey (RAL 7035)	Y-1671269-X
Adaptor panel for 24 x LC duplex	Grey (RAL 7035)	Y-1671272-X
Adaptor panels for 4 Quick-Fit modules (see page 91)	Grey (RAL 7035)	1671263-2

* ST-Style not available in OM2 (-2, black) and OM3 (-3, aqua)!

-X	Fiber Type	Color
-1	OM1	Beige
-2	OM2	Black
-3	OM3	Aqua
-4	OS2	Blue
-9	unpopulated	

- Y	No. of Adaptors
0-	unpopulated
1-	12
2-	24

Fiber Optic (FO) Cabling Systems
Patch Panels

1 U ST-Style, SC or LC Patch Panel, International Version

FEATURES:

- Drawer style, 1 U, 190

- Pre-installed dust covers on unpopulated ports

- Incl. management rings and metric glands

- Available in 300 mm and 220 mm depth

- Available in ST-Style, SC and LC

- Supplied without splicing tray (for splice trays see page 88)

Color: Black (RAL 9005)
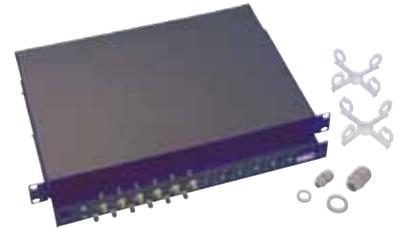
ORDERING INFORMATION

Description	220 mm deep	300 mm deep
24 x ST-Style, Multimode		
Unpopulated	1206480-8	1206114-8
With 12 adaptors	2-1206480-4	2-1206114-4
With 24 adaptors	4-1206480-4	4-1206114-4
With 24 adaptors and pigtails (OM2)	–	4-1206114-0
12 x SC Duplex, Multimode and Singlemode		
Unpopulated	1206505-8	1206138-8
With 6 Multimode adaptors	2-1206505-4	2-1206138-4
With 12 Multimode adaptors	4-1206505-4	4-1206138-4
With 12 Multimode adaptors and 24 pigtails (OM3)	–	4-1206138-0
With 6 Singlemode adaptors	2-1671017-4	2-1348960-4
With 12 Singlemode adaptors	4-1671017-4	4-1348960-4
With 12 Singlemode adaptors and 24 pigtails (OS2)	–	4-1348960-0
24 x SC Duplex, Multimode and Singlemode		
Unpopulated	–	1206343-4
With 24 Multimode adaptors	–	4-1206343-4
With 24 Multimode adaptors and 48 pigtails (OM3)	–	4-1206343-1
With 24 Singlemode adaptors	–	4-1671002-4
With 24 Singlemode adaptors and 48 pigtails (OS2)	–	4-1671002-1
24 x LC Duplex, Multimode and Singlemode		
Unpopulated	–	1671000-8
With 12 Multimode adaptors	–	2-1671000-8
With 24 Multimode adaptors	–	4-1671000-8
With 24 Multimode adaptors and 48 pigtails (OM3)	–	4-1671000-0
With 12 Singlemode adaptors	–	2-1671000-4
With 24 Singlemode adaptors	–	4-1671000-4
With 24 Singlemode adaptors and 48 pigtails (OS2)	–	4-1671000-1

1 U MT-RJ Patch Panel, International Version

FEATURES:

- MT-RJ panel, 1 U, 190

- Holds up to 24 MT-RJ Jacks (see page 105)
  or up to 24 MT-RJ Pigtails (see page 124)

- Drawer style, slide and tilt

- For panel accessories see page 88

- Incl. management rings

- Splice tray not included (see page 88)

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Style	MT-RJ quick termination		MT-RJ Fusion splice technology	Part Number
		Workstation Jack**	Panel Jack	Splicing possible	
With 6 cable entries, incl. 2 metric glands	universal	no	yes	yes	1206704-4
With open backside	universal	no	yes	no	1536663-2
With 24 shutters	universal	yes	yes*	yes*	1671003-4

* use of workstation SL-housing necessary (see page 105)
** Kit including MT-RJ Jack, SL-Housing and strain relief (see page 105)

1 U Patch Panel, Drawer, Empty, for 3 MPO Cassettes or Snap-In-Modules

FEATURES:

- 1 U, 190, metal

- Drawer style

- Accommodates up to 3 MPO/MPOptimate Cassettes
  or Snap-In-Modules (see pages 92-94)

- Quick release front panel

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Heigh	Part Number
Drawer panel for 3 MPO Cassettes (w/o glands & managers)	1 U	1671082-8
Drawer panel for 3 Snap-in-Modules (w/ glands & managers)	1 U	1348876-4

Fiber Optic (FO) Cabling Systems
Patch Panels

1 U Rack Mount Patch Enclosure

FEATURES:

- Accept three (3) Snap-in Adapter Plates or MPO Cassettes (not included)
- Heavy duty, smoothly operating, slide mounting brackets
- Clear top removable cover
- Flush mount
- Holds 2 Splice trays (not included)
  - P/N: 1435574-1
- Fits standard TIA 19" rack
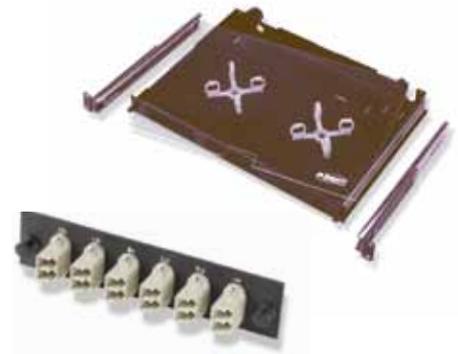
Panel Holds 3 Snap-in Adapter Plates or MPO Cassettes (not included)

ORDERING INFORMATION

Description	Heigth	Width	Part Number
Panel Enclosure	1U (1.75")	19"	1-1657014-7

Fiber Densities		
Insert Type	Fiber Density (max)	Duplex Port Density (max)
6-Fiber Adapter Plates	18	9
12-Fiber Adapter Plates or MPO Cassettes	36	18
24-Fiber Adapter Plates or MPO Cassettes	72	36
Splice Trays (2)	24	---

1 U Patch Panel, Frontplate, Empty, for 3 MPO Cassettes or Snap-In-Modules

FEATURES:

- 1 U, 190, metal
- Frontplate style
- Accommodates up to 3 MPO/MPOptimate Cassettes
or Snap-In-Modules (see pages 92-94)
- For rear cable management bars (recommended for MPO trunks) see page 103
Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Heigth	Part Number
Frontplate panel for 3 Snap-In Modules	1 U	1671114-4

Fiber Optic (FO) Cabling Systems
Patch Panels

2 U Patch Panel, Empty, for 4 MPO Cassettes or Snap-In-Modules

FEATURES:

- 2 U, 190, metal

- Accommodates up to 4 MPO/ MPOptimate Cassettes or Snap-In-Modules (see page 92-94)

- Removable back cover for easy installation

- Cable strain relief brackets in back

- Front and rear cable management rings

- Edge guard on front cable entries

- Fits standard 190 and 230 racks

- Shown loaded with 6-fiber duplex SC adaptor plates (not included)

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Height	Part Number
Panel for 4 Snap-In-Modules	2 U	559542-2

4U Rack Mount Patch Enclosures and Accessories

FEATURES:

- Accept twelve (12) Snap-in Adapter Plates or MPO Cassettes (not included)

- Removable front and rear covers for easy access and installation

- Front and rear cable management rings

- Edge guard on front cable entries for cable assembly protection

- Forward, flush or recessed mounting

- Fits standard TIA 19″ and 23″ racks

- Standard Cable Enclosure includes cable strain relief

- Armored and Multiple Trunk Cable Enclosure includes:

  - Special design to hold armored or multiple trunk cables in place

  - Large rear cable entry with tie down brackets that can be mounted inside or outside of Enclosure

- Security Kit includes two (2) locks and one (1) aluminum front door (black)

  *For use with 4U enclosure 559552-2 only

- Shown loaded with 6-Fiber ST Snap-in Adapter Plates (not included)

ORDERING INFORMATION

Description	Height	Width	Part Number
Standard Cables	4U (7.*0″)	19″ or 23″	559552-2
Armored and Multiple Trunk Cables	4U (7.*0″)	19″ or 23″	1435558-1
4U Security Kit	–	–	*1435161-2

Fiber Densities

Insert Type	Fiber Density (max)	Duplex Port Density (max)
6-Fiber Adapter Plates	72	36
12-Fiber Adapter Plates or MPO Cassettes	144	72
24-Fiber Adapter Plates or MPO Cassettes	288	144

Accessories for Patch Panels

ORDERING INFORMATION

Description	Packaging	Part Number
Cable termination kit with glands	1	1671273-1
Cable termination kit with flex tube	1	1671274-1

Accessories for all Patch Panels

ORDERING INFORMATION

Description	Part Number
Dust cover for SC Duplex Cut-Out; Packaging: 1	0-1206121-2
Dust cover for ST-Style Cut-Out; Packaging: 1	0-1206134-1
PG 9 Gland (3.5-8 mm); Packaging: 50	0-1206144-1
PG 16 Gland (9-14 mm); Packaging: 50	0-1206145-1
Cable management ring kit (2 rings); Packaging: 1	0-1206146-1
Dust cover for SC Simplex/LC Simplex Cut-Out; Packaging: 1	0-1418800-1
M 20; Packaging: 50	0-1671054-1
M 25; Packaging: 50	0-1671054-2

Splice Trays

FEATURES

- Splice trays delivered with cover
- Splice protectors not included in tray

ORDERING INFORMATION

Description	Part Number
For 24 SMOUV (62 mm) splice protectors	0-1671281-1
For 24 ANT splice protectors	0-1671281-2
For 24 RECORDsplice splices	0-1671281-3
ANT splice protector; Packaging: 150	182398-000
SMOUV splice protector (62 mm); Packaging: 100	657054-000
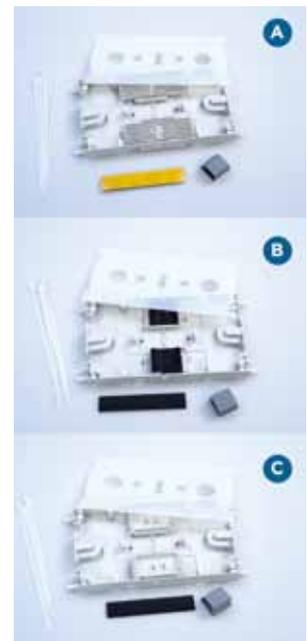
Wall Mount Enclosure for 6 Modules, Unloaded, With Side Door

FEATURES:

- Accepts 6 Snap-In-Modules (see page 92-94)

- Optional lock available

- Optional grommets available

- Splice tray holder kit available

- Designed for intrabuilding or campus backbone applications

- Reversible cable strain relief bracket

- Recessed, easy-to-use door latches

- Dimensions: 420 x 350 x 127,4 mm (W x H x D)

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
With grommets, cable glands and splice tray holder	1278755-4
Splice tray holder kit	1374526-1
Grommets	559496-2
Lock	559501-2

Plastic Wall Mount Enclosure 2F

FEATURES:

- Pre-installed adaptor

- Size: 125 x 150 x 65 mm (W x H x D)

- IP 53 rated

ORDERING INFORMATION

Description	Part Number
Wall Mount Enclosure 2F, SC, Duplex, MM	1671116-1
Wall Mount Enclosure 2F, SC, Duplex, SM	1671116-2

Plastic Wall Mount Enclosure 6F

FEATURES:

- Pre-installed adaptors

- Incl. management ring

- Size: 225 x 280 x 85 mm (W x H x D)

- IP 53 rated

ORDERING INFORMATION

Description	Part Number
Wall Mount Enclosure 6F, SC, Duplex, MM	1671117-1
Wall Mount Enclosure 6F, SC, Duplex, SM	1671117-2

Plastic Wall Mount Enclosure 12/24F

FEATURES:

- Pre-installed adaptors

- Incl. management ring

- Supplied without splicing tray

- For accessories and splice trays see page 88

- Size: 220 x 325 x 110 mm (W x H x D)

- IP 53 rated

ORDERING INFORMATION

Description	Part Number
Wall Mount Enclosure 12F, SC, Duplex, MM	1671118-1
Wall Mount Enclosure 12F, SC, Duplex, SM	1671118-2
Wall Mount Enclosure 24F, SC, Duplex, MM	1-1671118-1
Wall Mount Enclosure 24F, SC, Duplex, SM	1-1671118-2

Fiber Optic (FO) Cabling Systems
Quick - Fit and Snap -In Modules

Quick-Fit Fiber Modules

FEATURES

- Universal Modules with Quick-Fit footprint

- Fit in all TE Connectivity Patch Panels with Quick-Fit footprint

- Not interchangeable with push pin fixation

Color: Black (RAL 9005)

Note: MT-RJ panel jacks NOT include
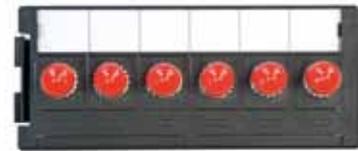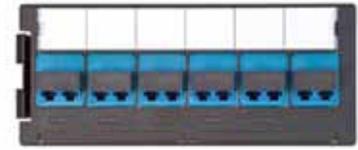
ORDERING INFORMATION

Description	Part Number
6x LC duplex; Fiber Type: OM2; Color: Black; Ferrule: Composite	0-1671196-2
6x LC duplex; Fiber Type: OM3 XG 10 Gb/s; Color: aqua; Ferrule: Composite	0-1671196-3
6x LC duplex; Fiber Type: OS2; Color: blue; Ferrule: Ceramic	0-1671196-1
6x LC quad; Fiber Type: OM2; Color: Black; Ferrule: Composite	0-1671202-2
6x LC quad; Fiber Type: OM3 XG 10 Gb/s; Color: aqua; Ferrule: Ceramic	0-1671202-3
6x LC quad; Fiber Type: OS2; Color: blue; Ferrule: Ceramic	0-1671202-1
6x MT-RJ*; Fiber Type: OM2; Color: Black; Ferrule: Composite	0-1671197-2
6x MT-RJ*; Fiber Type: OM3 XG 10 Gb/s; Color: aqua; Ferrule: Ceramic	0-1671197-3
6x MT-RJ*; Fiber Type: OS2; Color: blue; Ferrule: Ceramic	0-1671197-1
6x SC duplex; Fiber Type: OM2; Color: Black; Ferrule: Composite	0-1671201-2
6x SC duplex; Fiber Type: OM3 XG 10 Gb/s; Color: aqua; Ferrule: Ceramic	0-1671201-3
6x SC duplex; Fiber Type: OS2; Color: blue; Ferrule: Ceramic	0-1671201-1
6x ST; Fiber Type: Multimode; metallic body; Ferrule: Composite	0-1671195-2
6x ST; Fiber Type: Singlemode; metallic body; Ferrule: Ceramic	0-1671195-1
Blank module	0-1479698-1

MPO/MPOptimate coupler Quick-Fit module

FEATURES

- Quick-Fit module with 6x MPO coupler

- Port number labeling and additional label strip included

- MPO coupler always used with on one side MPO male and other side MPO female connector

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
6x MPO coupler module	0-1671200-1
12x MPO coupler module	0-1711987-1

3. Fiber Optic (FO) Cabling System

MPO/MPOptimate Snap-In-Module

FEATURES:

- Fits in all TE Connectivity patch panels for Snap-In-Modules

ORDERING INFORMATION

Description	Packaging	Part Number
MPO Coupler 6 x 12 fibers (Multimode + Singlemode)	1	1374598-1

MT-RJ Snap-In-Modules

FEATURES:

- Holds up to six MT-RJ Jacks (page 105) or MT-RJ Jack pigtails (see page 125)

- Fits in TE Connectivity patch panels for Snap-In-Modules

- Individual ports icon-able (see page 195)

ORDERING INFORMATION

Description	Part Number
Snap-In-Module for 6 MT-RJ Jacks or Jack Pigtails	1278328-3

ST-Style Snap-In-Modules

FEATURES:

- Fits in all TE Connectivity patch panels for Snap-In-Modules

12 fibers

6 fibers

ORDERING INFORMATION

Description	Packaging	Part Number
ST-Style, 6 fibers (Multimode)	1	559557-1
ST-Style, 6 fibers (Singlemode)	1	559515-2
ST-Style, 12 fibers (Multimode)	1	1278567-1
ST-Style, 12 fibers (Singlemode)	1	1278567-2

SC Snap-In-Modules

FEATURES:

- Fits in all TE Connectivity patch panels for Snap-In-Modules

- X	Fiber type
-1	Multimode
-2	Singlemode
-4	Green (RAL 6032)

12 fibers

6 fibers

ORDERING INFORMATION

Description	Packaging	Part Number
Duplex SC, 6 fibers	1	559558-X
Duplex SC, 12 fibers	1	559596-X
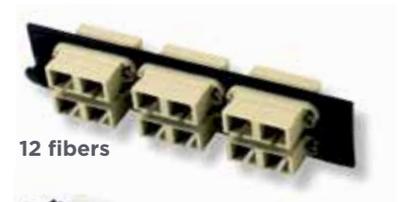
SC to ST-Style Snap-In-Modules

FEATURES:

- Fits in all TE Connectivity patch panels for Snap-In-Modules

12 fibers

6 fibers

ORDERING INFORMATION

Description	Packaging	Part Number
Duplex SC to ST-Style, 6 fibers (Multimode)	1	559601-1
Duplex SC to ST-Style, 12 fibers (Multimode)	1	1278368-1

LC Snap-In-Modules

FEATURES:

- Fits in all TE Connectivity patch panels for Snap-In-Modules

Multimode

Singlemode

ORDERING INFORMATION

Description	Packaging	Part Number
LC Duplex, 12 fibers (Multimode)	1	1374463-2
LC Duplex, 12 fibers (Singlemode)	1	1374463-1
LC Duplex, 24 fibers (Multimode)	1	1435516-2
LC Duplex, 24 fibers (Singlemode)	1	1435516-1

3. Fiber Optic (FO) Cabling System

SL Style Snap-In Module

FEATURES:

- Fits in all TE Connectivity patch panels for Snap-In-Modules

ORDERING INFORMATION

Description	Part Number
6 port SL style, black	1479506-1
6 port SL style, not painted	1671168-1

Snap-In Blank Modules

ORDERING INFORMATION

Description	Packaging	Part Number
Blank modules	1	1671146-1
Blank modules	100	1-1671146-1

Fiber Optic (FO) Cabling Systems
MPOptimate System

MPO/MPOptimate installation and polarity

In each fiber optic system, the link from source (Tx) to receiver (Rx) needs to be flipped once.

In a complete MPO/MPOptimate link this flipping is provided by one flipped cassette, while all other components in this link shall be installed as straight version.
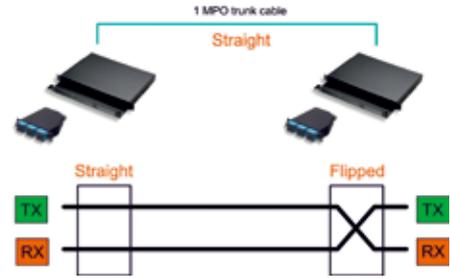
MPOptimate ready for 10, 40 and 100 Gb/s

The MPOptimate system is designed to support 10G Ethernet and 4/8G Fiber Channel applications through the complete structure of a Data Center, as specified in ISO/IEC 24764, EN 50173-5 and TIA/EIA 942. The MPOptimate system is designed to have 6 cassettes per link for 10 Gb/s with a full 300 meter support on OM3 fibers and 550 meter on OM4 fibers.

It offers one passive channel from the end equipment to the core switch without the need of repeating signals for amplifying reasons. When using the MPOptimate cabling system, the owner can replace aggregation switches by a patch cord without changing the passive infrastructure.

The system offers already today a fully 40 and 100 Gb/s capability and seamless migration.
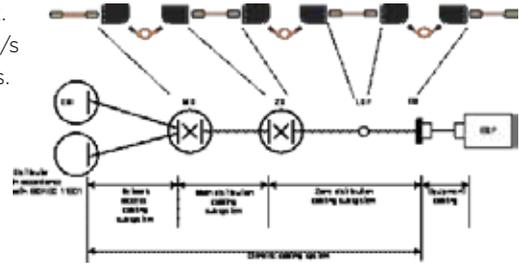
Lengths tables for MPO/MPOptimate trunks and fan-out assemblies

LENGTH TABLE A:

Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length
0- -2	2 m	1- -3	13 m	2- -4	24 m	3- -5	35 m	4- -6	46 m	5- -7	57 m	6- -8	68 m	7- -9	79 m
0- -3	3 m	1- -4	14 m	2- -5	25 m	3- -6	36 m	4- -7	47 m	5- -8	58 m	6- -9	69 m	8- -0	80 m
0- -4	4 m	1- -5	15 m	2- -6	26 m	3- -7	37 m	4- -8	48 m	5- -9	59 m	7- -0	70 m	8- -1	81 m
0 -5	5 m	1- -6	16 m	2- -7	27 m	3- -8	38 m	4- -9	49 m	6- -0	60 m	7- -1	71 m	8- 2	82 m
0- -6	6 m	1- -7	17 m	2- -8	28 m	3- -9	39 m	5- -0	50 m	6- -1	61 m	7- -2	72 m	8- -3	83 m
0- -7	7 m	1- -8	18 m	2- -9	29 m	4- -0	40 m	5- -1	51 m	6- -2	62 m	7- -3	73 m	8- -4	84 m
0- -8	8 m	1- -9	19 m	3- -0	30 m	4- -1	41 m	5- -2	52 m	6- -3	63 m	7- -4	74 m	8- -5	85 m
0- -9	9 m	2- -0	20 m	3- -1	31 m	4- -2	42 m	5- -3	53 m	6- -4	64 m	7- -5	75 m	8- -6	86 m
1- -0	10 m	2- -1	21 m	3- -2	32 m	4- -3	43 m	5- -4	54 m	6- -5	65 m	7- -6	76 m	8- -7	87 m
1- -1	11 m	2- -2	22 m	3- -3	33 m	4- -4	44 m	5- -5	55 m	6- -6	66 m	7- -7	77 m	8- -8	88 m
1- -2	12 m	2- -3	23 m	3- -4	34 m	4- -5	45 m	5- -6	56 m	6- -7	67 m	7- -8	78 m	8- -9	89 m

LENGTH TABLE B:

Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length
9- -9	100 m	1- -1	111 m	2- -2	122 m	3- -3	133 m	4- -4	148 m	5- -5	170 m	6- -6	192 m	7- -7	270 m
0- -1	101 m	1- -2	112 m	2- -3	123 m	3- -4	134 m	4- -5	150 m	5- -6	172 m	6- -7	194 m	7- -8	280 m
0- -2	102 m	1- -3	113 m	2- -4	124 m	3- -5	135 m	4- -6	152 m	5- -7	174 m	6- -8	196 m	7- -9	290 m
0- -3	103 m	1- -4	114 m	2- -5	125 m	3- -6	136 m	4- -7	154 m	5- -8	176 m	6- -9	198 m	8- -0	300 m
0- -4	104 m	1- -5	115 m	2- -6	126 m	3- -7	137 m	4- -8	156 m	5- -9	178 m	7- -0	200 m	8- -1	320 m
0- -5	105 m	1- -6	116 m	2- -7	127 m	3- -8	138 m	4- -9	158 m	6- -0	180 m	7- -1	210 m	8- -2	340 m
0- -6	106 m	1- -7	117 m	2- -8	128 m	3- -9	139 m	5- -0	160 m	6- -1	182 m	7- -2	220 m	8- -3	360 m
0- -7	107 m	1- -8	118 m	2- -9	129 m	4- -0	140 m	5- -1	162 m	6- -2	184 m	7- -3	230 m	8- -4	380 m
0- -8	108 m	1- -9	119 m	3- -0	130 m	4- -1	142 m	5- -2	164 m	6- -3	186 m	7- -4	240 m	8- -5	400 m
0- -9	109 m	2- -0	120 m	3- -1	131 m	4- -2	144 m	5- -3	166 m	6- -4	188 m	7- -5	250 m	8- -6	420 m
1- -0	110 m	2- -1	121 m	3- -2	132 m	4- -3	146 m	5- -4	168 m	6- -5	190 m	7- -6	260 m	8- -7	440 m

MPOptimate pre-terminated trunks

FEATURES

- Cable terminated with low loss 12 fiber MPOptimate connectors

- Terminated with female MPO connectors (male versions on request)

- OM3 or OM4 cable performance, LSZH construction

- Connector performance: IL ≤ 0.35 dB (max.); RL ≥ 28 dB

- The trunks are equipped with midi fan-out and round cable MPO tails protected with transparent protection sleeve

- Factory pre-terminated assemblies

- All cords with protocol, for constant and reliable quality

- Available in 12 fiber or 24 fiber (other fiber counts on request)

- Packaging: < 50 m in box, ≥ 50 m on reel

- Re-usable pulling socks can be ordered separatly. Part Number 0-2055567-1

ENSURED PERFORMANCE
BY Optimized Physical Contact

XG
10 Gb/s
approved

For more Information see page 215

ORDERING INFORMATION

Description	Part Number 2-99 m – table A	Part Number 100-500 m – table B
12 fiber; OM4 XGA 10 Gb/s; Straight; Available lengths: see page 95	Y-2055576-X	Y-2055577-X
24 fiber; OM4 XGA 10 Gb/s; Straight; Available lengths: see page 95	Y-2055578-X	Y-2055579-X
12 fiber; OM3 XG 10 Gb/s; Available lengths: see page 95	Y-2055611-X	Y-2055612-X
24 fiber; OM3 XG 10 Gb/s; Available lengths: see page 95	Y-2055715-X	Y-2055716-X

TE
connectivity

Fiber Optic (FO) Cabling Systems
MPOptimate System

MPOptimate to LC Quick-Fit cassettes

FEATURES

- Pre-terminated low loss cassettes

- Front: 6 x optimized LC Duplex or 6 x optimized LC Quad

- Back: 1 or 2 low loss MPOptimate connector(s)

- Available in straight or flipped pair version

- Optical performance in OM3 and OM4:
    IL ≤ 0.35 dB/cassette (max.)
    RL ≥ 27 dB

- Fits in TE Connectivity Quick-Fit patch panels
    with maximum density of 4 cassettes per 1 U

- Port number labeling and additional label strip included

ORDERING INFORMATION

Description	Pairs straight Part Number	Pairs flipped Part Number
1 x MPOptimate to 6 x LC Duplex (12 fiber); OM3 XG 10 Gb/s	0-1671226-3	1-1671226-3
1 x MPOptimate to 6 x LC Duplex (12 fiber); OM4 XGA 10 Gb/s	0-1671226-5	1-1671226-5
1 x MPOptimate to 6 x LC Quad (24 fiber); OM3 XG 10 Gb/s	0-1671227-3	1-1671227-3
1 x MPOptimate to 6 x LC Quad (24 fiber); OM4 XGA 10 Gb/s	0-1671227-5	1-1671227-5

MPOptimate to SC Quick-Fit cassettes

FEATURES

- Pre-terminated low loss cassettes

- Front: 6 x optimized SC Duplex

- Back: 1 x low loss MPOptimate connector

- Available in straight or flipped pair version

- Optical performance in OM3:
    IL ≤ 0.35 dB/cassette (max.)
    RL ≥ 27 dB

- Fits in TE Connectivity Quick-Fit patch panels
    with maximum density of 4 cassettes per 1 U

- Port number labeling and additional label strip included

ORDERING INFORMATION

Description	Pairs straight Part Number	Pairs flipped Part Number
1 x MPOptimate 6 x SC Duplex; Fiber type: OM3 XG 10 Gb/s	0-1671228-3	1-1671228-3

3. Fiber Optic (FO) Cabling System

MPOptimate to LC pre-assembled panel

FEATURES

- Simple and flexible premise fiber cabling

- Pre-terminated panel with 4 or 8 MPOptimate trunk connections
  (4 or 8 x 12) at rear and either 12 x optimized LC Quad (48 fiber) or
  24 x optimized LC Quad (96 fiber) at the frontside

- Flush mount LC couplers in front and integrated management
  on the back side

- Optical performance:
  IL ≤ 0.35 dB/cassette (max);
  RL ≥ 27 dB

ORDERING INFORMATION

Description	Pairs straight Part Number	Pairs flipped Part Number
Fiber type: OM3 XG 10 Gb/s; Fiber count: 96 fiber	0-1966328-5	2-1966328-5
Fiber type: OM3 XG 10 Gb/s; Fiber count: 48 fiber	0-1966328-6	2-1966328-6

TE
connectivity

MPOptimate patch cords

FEATURES

- Low loss MPOptimate 12 fiber MPO round cable patch cord

- Terminated with male and/or female MPOptimate connectors

- Cable performance: OM4; OM3 XG 10 Gb/s; LSZH construction

- Connector performance: IL ≤ 0.35 dB (max.); RL ≥ 28 dB

- Available in different lengths, see length table

- Available in female/female and male/female version
  in straight and total flipped wiring
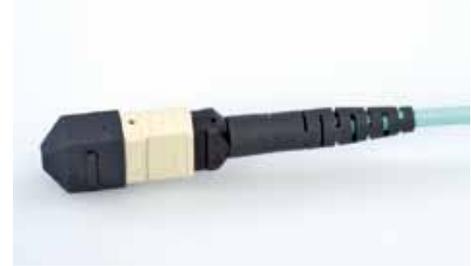
Color: Aqua

Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length
9- -0	0,5	9- -5	5,5	1- -1	11	2- -1	21	3- -1	31	4- -1	41	5- -1	51	6- -1	61
0- -1	1,0	0- -6	6,0	1- -2	12	2- -2	22	3- -2	32	4- -2	42	5- -2	52	6- -2	62
9- -1	1,5	9- -6	6,5	1- -3	13	2- -3	23	3- -3	33	4- -3	43	5- -3	53	6- -3	63
0- -2	2,0	0- -7	7,0	1- -4	14	2- -4	24	3- -4	34	4- -4	44	5- -4	54	6- -4	64
9- -2	2,5	9- -7	7,5	1- -5	15	2- -5	25	3- -5	35	4- -5	45	5- -5	55	6- -5	65
0- -3	3,0	0- -8	8,0	1- -6	16	2- -6	26	3- -6	36	4- -6	46	5- -6	56	6- -6	66
9- -3	3,5	9- -8	8,5	1- -7	17	2- -7	27	3- -7	37	4- -7	47	5- -7	57	6- -7	67
0- -4	4,0	0- -9	9,0	1- -8	18	2- -8	28	3- -8	38	4- -8	48	5- -8	58	6- -8	68
9- -4	4,5	9- -9	9,5	1- -9	19	2- -9	29	3- -9	39	4- -9	49	5- -9	59	6- -9	69
0- -5	5,0	1- -0	10	2- -0	20	3- -0	30	4- -0	40	5- -0	50	6- -0	60	7- -0	70

ORDERING INFORMATION

Description	Pairs straight Part Number	Pairs total flipped Part Number
MPOptimate female – MPOptimate female patch cord; OM3 XG 10 Gb/s	Y-2160135-X	Y-2160193-X
MPOptimate female – MPOptimate female patch cord; OM4 XGA 10 Gb/s	Y-2160136-X	Y-2160194-X
MPOptimate female – MPOptimate male patch cord; OM3 XG 10 Gb/s	Y-2160139-X	Y-2160197-X
MPOptimate female – MPOptimate male patch cord; OM4 XGA 10 Gb/s	Y-2160140-X	Y-2160198-X

MPOptimate Fan-Out cable assemblies

FEATURES

- Low loss transition from MPO to LC or SC tails 2 mm

- Terminated with female or male MPOptimate connectors

- Cable performance: OM4 or OM3 XG 10 Gb/s; LSZH construction

- Optical performance:
    MPO connector: IL ≤ 0.35 dB (max.); RL ≥ 28 dB
    LC connector: IL ≤ 0.15 dB; RL ≥ 35 dB

- Tail lengths: 4x 40 cm, 4x 50 cm, 4x 60 cm.
    Other tail lengths available on request

- The trunks are equipped with midi fan-out and round cable MPO tails

- All tails are protected with transparent protection sleeve

- Packaging: ≤50 m in box, >50 m on reel

- Re-usable pulling socks can be ordered separately. Part Number 0-2055567-1

ORDERING INFORMATION

Description	Part Number 2-99 m – table A	Part Number 100-500 m – table B
1 x MPOptimate female to 12 x LC Simplex; OM4 XGA 10 Gb/s; Available lengths: see page 95	Y-2055580-X	Y-2055581-X
1 x MPOptimate female to 12 x SC Simplex; OM4 XGA 10 Gb/s	Y-2160114-X	Y-2160115-X
1 x MPOptimate female to 12 x LC Simplex; OM3 XG 10 Gb/s	Y-2055623-X	Y-2055624-X
1 x MPOptimate female to 12 x SC Simplex; OM3 XG 10 Gb/s	Y-2160112-X	Y-2160113-X
1 x MPOptimate male to 12 x LC Simplex; OM4 XGA 10 Gb/s	Y-2160146-X	Y-2160147-X
1 x MPOptimate male to 12 x SC Simplex; OM4 XGA 10 Gb/s	Y-2160126-X	Y-2160127-X
1 x MPOptimate male to 12 x LC Simplex; OM3 XG 10 Gb/s	Y-2055600-X	Y-2055704-X
For available lengths: see page 95		

MPOptimate LC and SC patch cords

FEATURES

- Patch cords with optimized LC and SC connectors

- Cable performance: OM4 or OM3 XG 10 Gb/s; LSZH construction

- Optical performance:
  - LC connector: IL ≤ 0.15 dB; RL ≥ 35 dB
  - SC connector: IL ≤ 0.15 dB; RL ≥ 35 dB
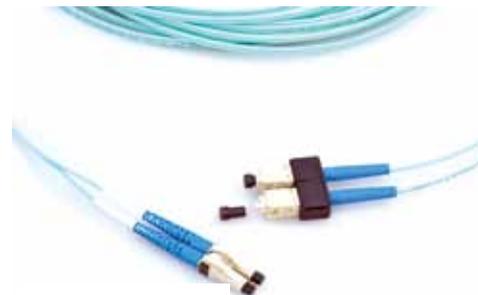
Y- -X	Length
0- -1	1 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

ORDERING INFORMATION

Description	Part Number
Patch cord LC Duplex – LC Duplex; OM3 XG 10 Gb/s	Y-1920743-X
Patch cord SC Duplex – SC Duplex; OM3 XG 10 Gb/s	Y-2055108-X
Patch cord LC Duplex – SC Duplex; OM3 XG 10 Gb/s	Y-2055109-X
Patch cord LC Duplex – LC Duplex; OM4 XGA 10 Gb/s	Y-2160046-X
Patch cord SC Duplex – SC Duplex; OM4 XGA 10 Gb/s	Y-2160047-X
Patch cord LC Duplex – SC Duplex; OM4 XGA 10 Gb/s	Y-2160048-X

Pre-terminated MPO trunk cable, 12 / 24 fiber

FEATURES

- Factory pre-terminated assemblies

- Cables terminated with high density MPO connectors

- All cords with protocol, for constant and reliable quality

- In OM3 and OS2 design with LSZH sheath

- Available in lengths from 2 up to 500 m

- The trunks are equipped with midi fan-out and round cable MPO tails protected with transparent protection sleeve. Available in 12 or 24 fiber (other counts on request)

- Packaging: <50 m in box, ≥50 m on reel

- Re-usable pulling socks can be ordered separately. Part number 2055567-1

ORDERING INFORMATION

Description	Part Number 2-99 m – table A	Part Number 100-500 m – table B
12 Fiber; OM3 XG 10 Gb/s; Straight	Y-2055707-X	Y-2055708-X
24 Fiber; OM3 XG 10 Gb/s; Straight	Y-2055709-X	Y-2055710-X
12 Fiber; SM; Straight	Y-2055711-X	Y-2055712-X
24 Fiber; SM; Straight	Y-2055713-X	Y-2055714-X

Fiber Optic (FO) Cabling Systems
MPOptimate Panels & Accessories

Modular MPO/MPOptimate front plate for Quick-Fit cassettes

FEATURES

- Low cost solution

- Flush mount

- Front plate with no additional cable management

- Does accept copper and fiber in one panel

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Modular MPO/MPOptimate front plate	1-1671373-1

MPO/MPOptimate coupler Quick-Fit module

FEATURES

- Quick-Fit module with 6x MPO coupler

- Port number labeling and additional label strip included

- MPO coupler always used with on one side MPO male and other side MPO female connector

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
6x MPO coupler module	0-1671200-1
12x MPO coupler module	0-1711987-1

Fiber Optic (FO) Cabling Systems

MPOptimate Panels & Accessories

MPO/MPOptimate back cable manager

FEATURES

- 19", 1 U rear cable management bar

- Used for MPO front panels

- 3 depths available

- Applications include new installation and retrofit

- Rear or front of rack or cabinet mount

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Cable management bar 100 mm depth	0-1711314-1
Cable management bar 175 mm depth	0-1711314-2
Cable management bar 275 mm depth	0-1711314-3

MPO/MPOptimate pull protection sleeve

FEATURES

- Re-usable installation pull and protection kit

- IP 67 protection

- Must be ordered separately

- One part number contains 1x installation sleeve with end cap and 1x pull sleeve with pull eye

- Does fit to:
  - 12 fiber MPO and MPOptimate trunks with midi fan-out
  - 24 fiber MPO and MPOptimate trunks with midi fan-out
  - 12 x MPO to LC or SC MPO and MPOptimate trunk with midi fan-out

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Protection sleeve kit	0-2055567-1

Velcro Cable Ties

ORDERING INFORMATION

Description	Part Number
Velcro Tie 1" x 8" (10pcs.)	0-1375253-2
Velcro Tie 1" x 12" (10pcs.)	0-1375254-2

MPO/LC/SC/MT-RJ Cassette Cleaners

ORDERING INFORMATION

Description	Part Number
MTP/MPO with pins; Packaging: 1	0-1918802-1
1 Slot Reel Cleaner for MPO/LC/SC and MT-RJ; Packaging: 1	0-1918803-1
2 Slot reel cleaner for LC and SC; Packaging: 1	0-1918805-1
Cleaner Refill; Packaging: 6 rolls	0-1918806-1

MPO Coupler Cleaner

ORDERING INFORMATION

Description	Part Number
MPO IBC; Packaging: 1	0-1918809-1

LC/SC bulkhead cleaner

ORDERING INFORMATION

Description	Part Number
SC IBC (In Bulkhead Cleaner)	0-2064499-1
LC IBC (In Bulkhead Cleaner)	0-2064500-1

Fiber Optic (FO) Cabling Systems
Connectivity

MT-RJ Jacks

COMMON FEATURES

- Field installable MT-RJ Jack with 2 pre-terminated fibers

- No epoxy, no polish, no crimp

- Can be re-terminated

- Jack version eliminates the need for a separate adaptor

- With bend limiting boot and SL housing

MT-RJ Workstation Jacks

FEATURES:

- For installation on 900 µm tight buffered fiber

- Re-usable, with bend limiting boot
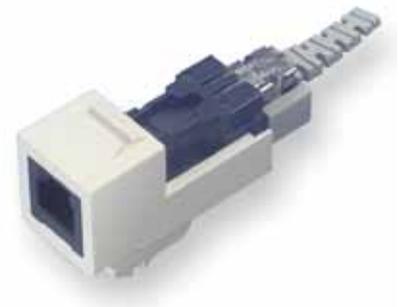
ORDERING INFORMATION

Description	Color	Part Number
50/125 µm	Almond-black	6278414-1
62,5/125 µm	Almond-almond	6278415-1
50/125 µm, OM3 (10 GBit XG)	Grey-grey	1-6278414-2

MT-RJ Secure Workstation Jacks

FEATURES:

- SECURE Jacks prevent mispatching and limit access to secure networks

- Available in 10 different color codings

- Each color also features its own mechanical key

- Jacks are to be used with SECURE patch cords

- For installation on 900 µm tight buffered fiber

ORDERING INFORMATION

Description	Part Number
50/125 µm	6278811-X
62,5/125 µm	6278810-X
50/125 µm, OM3 (10 GBit XG)	6754252-X

- X	Color
-1	Red
-2	Yellow
-3	Green
-4	Blue
-5	Rose
-6	Aqua
-7	Brown
-8	Violet
-9	Orange
1- -0	Grey

MT-RJ Panel Jacks

FEATURES:

- Fits in TE Connectivity MT-RJ patch panel

- Optional bend limiting boot

ORDERING INFORMATION

Description	Fiber/Buffer type	Packaging	Color	Part Number
50/125 µm	for 250 µm coated fiber	6	black	6278303-1
62,5/125 µm	for 250 µm coated fiber	6	almond	6278303-2
50/125 µm, OM3 (10 GBit XG)	for 250 µm coated fiber	6	grey	6278303-4
50/125 µm	for 900 µm buffered fiber	6	black	6588880-1
62,5/125 µm	for 900 µm buffered fiber	6	almond	6588880-2
50/125 µm, OM3 (10 GBit XG)	for 900 µm buffered fiber	6	grey	6588880-3
Bend limiting boot	–	100	–	6374208-5

MT-RJ Secure Panel Jacks

FEATURES:

- SECURE Jacks prevent mispatching and limit access to secure networks

- Available in 10 different color codings

- Each color also features its own mechanical key

- Jacks are to be used with SECURE patch cords

- Fits in TE Connectivity MT-RJ patch panel

- Optional bend limiting boot

ORDERING INFORMATION

Description	Fiber/Buffer type	Packaging	Part Number
50/125 µm	for 250 µm coated fiber	6	6278807-X
62,5/125 µm	for 250 µm coated fiber	6	6278808-X
50/125 µm, OM3 (10 GBit XG)	for 250 µm coated fiber	6	6693951-X
50/125 µm	for 900 µm buffered fiber	6	6588879-X
62,5/125 µm	for 900 µm buffered fiber	6	6588878-X
50/125 µm, OM3 (10 GBit XG)	for 900 µm buffered fiber	6	6693949-X

- X	Color
-1	Red
-2	Yellow
-3	Green
-4	Blue
-5	Rose
-6	Aqua
-7	Brown
-8	Violet
-9	Orange
1- -0	Grey

3. Fiber Optic (FO) Cabling System

ST-Style Connector Kits

FEATURES

- High performance pre-radiussed ferrules

- ST-Style compatible bayonet coupling

- Multimode or singlemode

- Durability: 0,2 dB change after 500 cycles (MM)

- Temperature range: –20°C to +75°C

- Insertion loss typ. < 0,3 dB

- Available in DieCast and overmolded (OVM) version

- For tools see page 181.

ORDERING INFORMATION

Ferrule	Connector body/bayonet	3 mm boot	0,9 mm boot	Crimp eyelet	Fiber type	Packaging	Part Number
Ceramic	DieCast/Metal	yes	no	yes	SM	1000	5502580-2
Ceramic	DieCast/Metal	no	yes	yes	SM	1000	5503613-2
Ceramic	DieCast/Metal	yes	yes	yes	MM	1000	5492458-1

Bend limiting boots, package quantity 100

Cable boot, short, 3 mm, black   Part Number **0501457-1**
Cable boot, short, 3 mm, red   Part Number **1-0501457-0**
Buffer boot, 0,9 mm, black   Part Number **5503628-2**

3. Fiber Optic (FO) Cabling System

SC Connector Kits

FEATURES

- High performance pre-radiussed ferrules

- SC compatible JIS C-5973

- Multimode or singlemode

- Durability: 0,2 dB change after 1000 cycles (MM)

- Temperature range: –40°C to +85°C

- Insertion loss typ. < 0,2 dB

- Available in simplex and duplex

- For tools see page 181.

ORDERING INFORMATION

Type	Ferrule	3 mm boot	0,9 mm boot	Crimp eyelet	Fiber type	Packaging	Part Number
Simplex	Ceramic	yes	no	yes	MM	10	5503948-1
Simplex	Ceramic	yes	no	yes	SM	10	5504646-1
Simplex	Ceramic	no	yes	no	MM	10	5504932-1
Simplex	Ceramic	no	yes	no	SM	10	5492123-1
Duplex	Ceramic	yes	no	yes	MM	10	5504657-1
Duplex	Ceramic	yes	no	yes	SM	10	5504655-1

Bend limiting boots, package quantity 1000

Cable boot, short, 3 mm, black	Part Number 1-5503971-0
Cable boot, short, 3 mm, red	Part Number 1-5503971-1
Cable boot, short, 3 mm, beige	Part Number 5503971-1
Buffer boot, 0,9 mm, black	Part Number 6457493-3
Buffer boot, 0,9 mm, beige	Part Number 6457493-9

Clips for making one Duplex SC
out of two Simplex.
(2 Clips needed.)
Part Number 0-6348522-1

Fiber Optic (FO) Cabling Systems
Connectivity

LC Connector Kits

FEATURES:

- Multimode and singlemode (Telcordia GR-326 tested and TIA/EIA 568-B.3 qualified)

- Universal connector body:
  - common body for simplex or duplex
  - common body for jumper or buffer applications

- Field installable duplex clip

- Improved side load strength

- Insertion loss typ. < 0,2 dB

- Temperature range −40 °C to +85 °C

- Durability: 0,2 dB change after 500 cycles (MM)

This connector type is also available as SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE couplers.

Clip for making a Duplex LC out of 2 Simplex.
Part Number 0-1754371-2 (black)

ORDERING INFORMATION

Type	Ferrule	Boot	Fiber type	Packaging	Part Number
Simplex	Ceramic	1,6–2,0 mm	MM	10	1918267-1
Simplex	Ceramic	1,6–2,0 mm	SM	10	1918266-1
Simplex	Ceramic	0,9 mm	MM	10	1918385-1
Simplex	Ceramic	0,9 mm	SM	10	1918384-1
Duplex	Ceramic	1,6–2,0 mm	MM	10	1918373-1
Duplex	Ceramic	1,6–2,0 mm	SM	10	1918372-1
Duplex	Ceramic	0,9 mm	MM	10	1918388-1

TE connectivity

SL Series Optical Fiber Multimedia Inserts

FEATURES:

- Provide connections for different media types

- Configure faceplates to handle various services

- May be used in straight or angled faceplate modules

- Inserts easily snap into SL Series Modules, mounting straps, SL Series patch panels, and standard faceplates

- MT-RJ SL Series housing accepts one MT-RJ Jack sold separately

- For LC SECURE couplers, see Chapter 4

A

Coupler

B

SL Series Housing
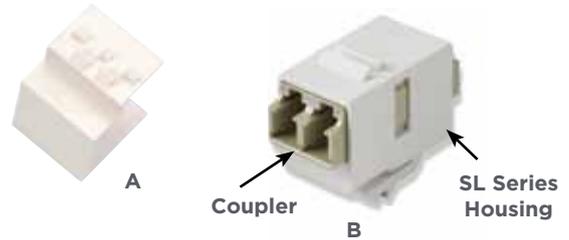
ORDERING INFORMATION

Description	Fiber Type	Figure	LC Coupler and Housing Color	Part Number
Blank		A	----	1116412-X
	62.5/125um	B	Beige	1-1933284-2
	50/125um		Black	1-1933284-1
LC Coupler	XG		Aqua	1933286-6
	(LO 850nm 50/125um)			
	Singlemode		Blue	1933286-4
	Singlemode APC		Green	1933286-3

- X	Color
-1	Beige
-2	Black
-3	White
-4	Grey
1- -1	Electrical Ivory

Adaptors SC Duplex/ST-Style

FEATURES:

- Suitable for any ST-style and SC connector

- Available in singlemode and multimode versions

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Metal	beige	Clip/Screw	MM	10	5504663-4
Plastic	Ceramic	beige	Clip/Screw	MM	10	5503137-6
Plastic	Ceramic	blue	Clip/Screw	SM	10	5503137-5

Adaptors SC Simplex/ST-Style

FEATURES:

- Suitable for any SC and ST-style simplex connector
- Available in singlemode and multimode versions

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Metal	beige	Clip/Screw	MM	10	5502780-3
Plastic	Ceramic	blue	Clip/Screw	SM	10	5502780-5
Plastic	Ceramic	beige	Clip/Screw	MM	10	5502780-6

Adaptors ST-Style Simplex/ST-Style Simplex 2,5 mm Bayonet

FEATURES:

- Suitable for any ST-style connector
- Available in singlemode and multimode versions

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Metal	Metal	–	–	MM	1	504021-1
Metal	Metal	–	–	MM	50	504021-2
Metal	Ceramic	–	–	SM	1	502750-1
Metal	Polymer	–	–	MM	1	501381-1

Adaptors SC Duplex/SC Duplex

FEATURES:

- Suitable for any SC duplex connector
- Available in singlemode and multimode versions

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Metal	beige	Clip/Screw	MM	10	5504640-1
Plastic	Ceramic	blue	Clip/Screw	SM	10	1-5502776-1
Plastic	Ceramic	beige	Clip/Screw	MM	10	1-5502776-2
Metal/EMI shielded	Ceramic	nickel	Clip/Screw	SM/MM	10	6278049-3
Plastic	Ceramic	aqua	Clip/Screw	OM3	10	2-5502776-6

Fiber Optic (FO) Cabling Systems
Connectivity

Adaptors SC Simplex/SC Simplex

FEATURES:

- Suitable for any SC simplex connector

- Available in singlemode and multimode versions

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Metal	beige	Clip/Screw	MM	10	5504614-1
Plastic	Ceramic	blue	Clip/Screw	SM	10	1-5502632-1
Plastic	Ceramic	beige	Clip/Screw	MM	10	1-5502632-2
Plastic	Ceramic	aqua	Clip/Screw	OM3	10	2-5502632-4

Adaptors SC-APC/SC-APC

FEATURES:

- Suitable for any SC-APC connector

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Simplex						
Plastic	Ceramic	green/with strap	Clip/Screw	SM	10	4-0106901-4
Plastic	Ceramic	green/without strap	Clip/Screw	SM	10	2-0106901-6
Duplex						
Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Ceramic	green	Clip/Screw	SM	10	2-5502776-3

Fiber Optic (FO) Cabling Systems
Connectivity

Adaptors LC Duplex/LC Duplex

FEATURES:

- Suitable for any LC duplex connector
- Fits in any SC-Simplex cut-out
- Available for singlemode and multimode

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Ceramic	Blue	Clip/Screw	SM	10	6457567-4
Plastic	Ceramic	Green	Clip/Screw	SM	10	6457567-6
Plastic	Ceramic	Beige	Clip/Screw	MM	10	6457567-5
Plastic	Ceramic	Aqua	Clip/Screw	OM3	10	1-6457567-6

This coupler type is also available as SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE connectors or with SECURE patch cords.

Adaptors LC Quad

FEATURES:

- Suitable for any LC duplex connector
- Fits in any SC duplex cut-out
- Available for singlemode and multimode

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Plastic	Ceramic	blue	Clip/Screw	SM	10	1695790-4
Plastic	Metal	beige	Clip/Screw	MM	10	1695790-5
Plastic	Ceramic	Aqua	Clip/Screw	OM3 XG 10Gb/s	10	1-1695790-0

Adaptors MT-RJ/MT-RJ

FEATURES:

- Suitable for MT-RJ connectors (1 connector with guide pins, the other without pins)

- Duplex coupler fits in SC Duplex cut out, simplex coupler fits in SC Simplex cut out

- Available for singlemode and multimode

ORDERING INFORMATION

Housing	Sleeve	Color	Mounting	Application	Packaging	Part Number
Simplex						
Plastic	–	beige	Clip/Screw	MM/SM	1	1278017-1
Duplex						
Plastic	–	beige	Clip/Screw	MM	10	6374906-1
Plastic	–	blue	Clip/Screw	SM	10	6374906-5

CORELINK Mechanical Splice

MECHANICAL QUICK TERMINATION
The CORELINK splice is easy to use, high performance mechanical splice for 125 µm singlemode and multimode fibers. Its unique clamping mechanism is activated with a simple key, no other tool is required. The splice is remateable-either fiber can be removed and replaced in the splice at any time.

INSTRUCTION SHEET FOR CORELINK

CORELINK splice
English   Part Number 408-4019
CORELINK workstation
English   Part Number 408-4131

FEATURES:

- No fusion splice necessary

- Torsion resistant

- Bellcore TR-765 tested

- For multimode and singlemode

- For tight buffer, semi tight and loose tube

- For 250 µm coating and 900 µm buffer

- Cleaving tool see page 183

ORDERING INFORMATION

Technical Data (Singlemode and Multimode)

Color	Insertion loss typical (dB)	Return loss typical (dB)	Application	Temperature Range	Dimensions
Transparent	≤ 0.3	– 35 dB (min)	SM	–10°C to +60 °C	51 x 7,6 x 3,3 mm
Transparent blue	≤ 0.3	– 20 dB (min)	MM	–10°C to +60 °C	51 x 7,6 x 3,3 mm

Fiber Optic (FO) Cabling Systems
Connectivity

CORELINK Splices

FEATURES:

- Mechanical splice
- Re-usable

Replacement keys

ORDERING INFORMATION

Description	Part Number
12 CORELINK Splices for multimode	503901-1
12 CORELINK Splices for singlemode	503577-1
2 Replacement keys in key holder	503681-1

Splice Holder for CORELINK Splices

FEATURES:

- Elastomer holder for 6 or 12 CORELINK splices
- For mount in splice boxes or in distribution boxes
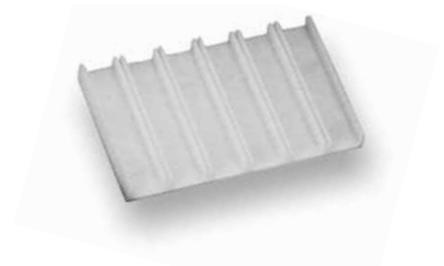
ORDERING INFORMATION

Description	Dimensions	Part Number
Splice holder for 6 CORELINK splices	31.8 x 61.0 mm	559066-1
Splice holder for 12 CORELINK splices	31.8 x 71.1 mm	559087-1

Workstation for CORELINK Splices

FEATURES:

- For easy and safe installation of the CORELINK splices

ORDERING INFORMATION

Description	Part Number
ORELINK Workstation	503605-1
CORELINK Cleave tool	1871696-1
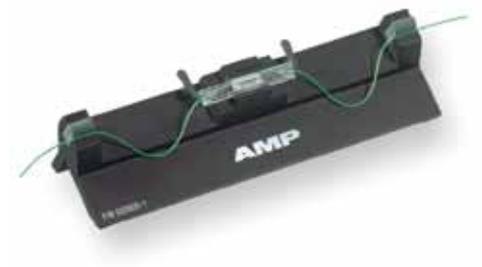
Splices

FEATURES:

- Same splice for multimode (OM1, OM2 and OM3) and singlemode fibers

- Any combination of 250 µm and 900 µm fiber

- Optical performance comparable with cladding-alignment based fusion sp

- Molded-in dust cap

- Designed to meet the international standards even of core network operating conditions (Telcordia, ITU, ...standards)

- Dimension splice: 3.8 x 3.8 x 46.2 mm (L x W x H)

- Packaging 1000 pieces (10 group boxes)

- Resell packaging (group box) 100 pieces

ORDERING INFORMATION

Description	Packaging	Part Number
RPI-SA100	1000	CB8020-000

Toolkit

FEATURES:

- A quality cleaver with a cutting angle of 8°

- A capacity of 20000 cleaves

- An integrated storage system of fiber cut-offs

- Tool-controlled positioning of the cleaved fibers into the splice

- Fully mechanical – no power or batteries

- Maintenance-free and no adjustment requirements

- Does not require usage in controlled environments

- Robust, compact and light

- Can work with very short fiber lengths

- Designed for right-handed and left-handed installers

- Tool dimensions: 155 x 160 x 140 mm (L x W x H)

- Weight: 1.4 kg/2.2 pound

- Comes in a protective case with mounting plate

ORDERING INFORMATION

Description	Packaging	Part Number
RPI-TK100	1	CB8019-000

LightCrimp Splice

- Terminates 250 μm coated, 900 μm tight-buffered, and
- 2.0 mm jacketed fibers
- Use with multimode and single-mode 125 μm diameter fibers
- No epoxy, set-up, or workstation required
- Use Termination Tool Kit part number 1553212-1, See Chapter 22
- Splice Performance Characteristics:

  Attenuation: Typical 0.1 dB

  Return Loss: (at ambient: 18 to 28° C)
    >20 dB Multimode
    >35 dB Singlemode

  Operating Temperature:
    -25 to 70° C

- Tensile Retention:

  250 μm coated: 2.0 N

  900 μm buffered: 3.0 N

  Jacketed: 50 N

Figure A

Figure B

Insert First Fiber and Complete Buffer Crimp

Insert Second Fiber and Actuate Crimp

Complete Second Buffer Crimp and Remove Splice from Tool

ORDERING INFORMATION

Description	Figure	Part Number
LightCrimp Splice for 250 μm Coated and 900 μm tight-buffered Fibers	A	1985374-1
LightCrimp Splice for 2.0 mm Jacketed Fiber	B	1985805-1

LightCrimp Plus Connectors

FEATURES:

- Easiest and quickest fiber termination
  (less than one minute)
- Factory polished for consistent high quality and finish
  (no paper required)
- Durability: 500 cycles

- No epoxy, curing or UV-light required
- Available for ST-Style, SC and LC
- Complies with the relevant TIA/EIA, IEC, CECC and EN/IS standards
- No epoxy – pre-polished

ENSURED PERFORMANCE
BY OPTIMIZED PHYSICAL CONTACT

ORDERING INFORMATION

Technical Data

Ferrule	Insertion loss typical (dB)	Temperature range
Ceramic	0.2 dB (SM), 0.3 dB (MM)	–10°C to +60°C

LightCrimp Plus ST-Style Connectors

FEATURES:

- ST-Style Connectors

- Ceramic ferrule

- With pre-installed and pre-polished fiber

ORDERING INFORMATION

Fiber	Packaging	Part Number
Simplex 50/125 µm	10	6278082-1
Simplex 62,5/125 µm	10	5492642-1
Instruction Sheet LightCrimp Plus		
LightCrimp Plus ST-Style english		408-4457

LightCrimp Plus SC Connectors

FEATURES:

- SC connector (simplex)

- Ceramic ferrule

- With pre-installed and pre-polished fiber

ORDERING INFORMATION

Fiber	Packaging	Part Number
Simplex 50/125µm	10	6278079-1
Simplex 62,5/125 µm	10	5492643-1
Simplex 10 GBit XG 50/125 µm	10	6588291-2w
Simplex 9/125 µm (250 µm + 900 µm only)	10	6693276-1
Instruction Sheet LightCrimp Plus		
LightCrimp Plus SC Simplex english		408-4471

Clips to connect two 2 SC simplex to one SC duplex connector (2 clips needed).
Part Number 6348522-1

TE connectivity

LightCrimp Plus LC Connectors

FEATURES:

- LC connector (simplex)
- Ceramic ferrule
- With pre-installed and pre-polished fiber
- For 250 µm + 900 µm cable only

XG
10Gb/s
approved

For more
Information
see page 215

ORDERING INFORMATION

Fiber	Packaging	Part Number
Simplex 50/125 µm	10	6754483-2
Simplex 62,5/125 µm	10	6754483-1
Simplex 10 GBit XG 50/125 µm	10	6754483-4
Simplex 9/125 µm	10	6754482-1
Instruction Sheet LightCrimp Plus		
LightCrimp Plus LC Simplex english		408-8925

This connector type is also available as SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE couplers.

Clip for making a LC Duplex out of 2 Simplex.
Part Number 1754371-2 (Black)

NOTE: For Termination tool kits see page 182

3. Fiber Optic (FO) Cabling System

SC and ST-Style Patchcords

Cable sheath:	LSZH & OFNR (dual rated)
Cable diameter:	3.0 mm Twin Zip
Buffer:	0.9 mm EasyStrip
Ferrule:	Ceramic

MT-RJ Patchcords

Cable sheath:	LSZH & OFNR (dual rated)
Cable diameter:	1.8 mm Mini Twin Zip
Buffer:	0.6 mm
Ferrule:	Thermoset

LC Patchcords

Cable sheath:	LSZH & OFNR (dual rated)
Cable diameter:	1.8 mm Mini Twin Zip
Buffer:	0.6 mm
Ferrule:	Ceramic

All assemblies are factory tested and come with a test protocol.

All assemblies are tight buffered cable constructions except when specially indicated.

All assemblies are machine polished providing highest quality with controlled endface specifications.

All assemblies can be turned per order requests for better mating performance.

AMP NETCONNECT 10 GBit Ethernet System
XG
10 Gb/s
approved

For all OM3 XG cable assemblies

TE
connectivity

3. Fiber Optic (FO) Cabling System

ST-Style Duplex/ST-Style Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105057-X
50/125 µm, OM2	Y-2105058-X
50/125 µm, OM3	Y-2105059-X
9/125 µm, OS2	Y-2105060-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

SC Duplex/SC Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105049-X
50/125 µm, OM2	Y-2105050-X
50/125 µm, OM3	Y-2105051-X
9/125 µm, OS2	Y-2105052-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

SC Duplex/ST-Style Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105053-X
50/125 µm, OM2	Y-2105054-X
50/125 µm, OM3	Y-2105055-X
9/125 µm, OS2	Y-2105056-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!
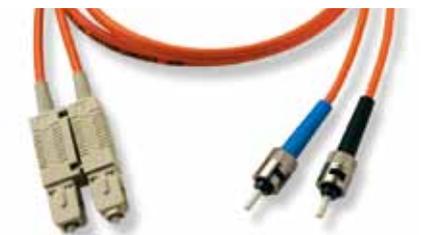
3. Fiber Optic (FO) Cabling System

SC Duplex/LC Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105029-X
50/125 µm, OM2	Y-2105030-X
50/125 µm, OM3	Y-2105031-X
9/125 µm, OS2	Y-2105032-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

LC Duplex/ST-Style Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105033-X
50/125 µm, OM2	Y-2105034-X
50/125 µm, OM3	Y-2105035-X
9/125 µm, OS2	Y-2105036-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

LC Duplex/LC Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105025-X
50/125 µm, OM2	Y-2105026-X
50/125 µm, OM3	Y-2105027-X
9/125 µm, OS2	Y-2105028-X

This patch cord type is also available as SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE couplers. .

Sealed Circular LC ODVA

FEATURES:

- IP67 rated to ensure protection from dust and water immersion
- LC connector qualified to Telcordia GR-326 and TIA/EIA 568B.3
- Temperature range of –40 °C to 85°C
- Bayonet-style mechanical lock
- Flame retardant materials per UL 94 V-0

APPLICATIONS:

- Harsh environments where chemicals, corrosive gases and liquids are commonplace
- Inside and outside industrial plant and equipment that interface with industrial Ethernet networks
- Remote interface applications such as towers and antennae as well as FTTX in PON and at the home applications
- Mobile routers and internet hardware

ORDERING INFORMATION

Description	Part Number
Sealed Circular LC ODVA to LC ODVA cable assy 62,5/125 µm	1828935-X
Sealed Circular LC ODVA to LC ODVA cable assy 9/125 µm	1828936-X
Plug, Multimode	1828618-1
Plug, Singlemode	1828618-2
Receptacle, Multimode	1828619-1
Receptacle, Singlemode	1828619-2
Plug Cap	1828740-1
Receptacle Cap	1918177-1

- X	Length
-1	1 m
-2	2 m
-3	3 m
-4	4 m
-5	5 m

Mode Conditioning Patch Cords

FEATURES:

- For use of Gigabit Ethernet 1000Base-LX on MM fibers
- For 50 µm and 62.5 µm fibers
- LSZH sheath
- Standard length 3 m
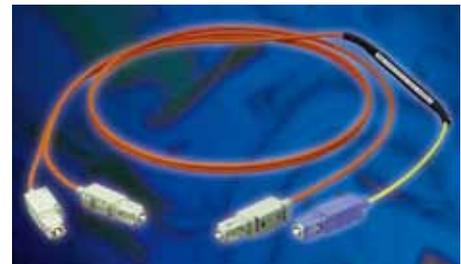
ORDERING INFORMATION

Description	Part Number
SC-Duplex to SC-Duplex, 50/125 µm	6206820-3
SC-Duplex to SC-Duplex, 62,5/125 µm	6206821-3
SC-Duplex (SM) to ST-Style Duplex, 50/125 µm	6348269-3
SC-Duplex (SM) to ST-Style Duplex, 62,5/125 µm	6348271-3
MT-RJ (SM) to ST-Style Duplex, 50/125 µm	6536445-3
MT-RJ (SM) to ST-Style Duplex, 62,5/125 µm	6536444-3
MT-RJ (SM) to SC-Duplex, 50/125 µm	6536447-3

Description	Part Number
MT-RJ (SM) to SC-Duplex, 62,5/125 µm	6536446-3
SC-Duplex (SM) to MT-RJ, 50/125 µm	6536769-3
SC-Duplex (SM) to MT-RJ, 62,5/125 µm	6536770-3
LC-Duplex (SM) to SC-Duplex, 50/125 µm	6536810-3
LC-Duplex (SM) to ST-Style Duplex, 62,5/125 µm	6695313-3
LC-Duplex (SM) to LC-Duplex, 50/125 µm	6536803-3
LC-Duplex (SM) to SC-Duplex, 62,5/125 µm	6536811-3

Fiber Optic (FO) Cabling Systems
Patch Cords

MT-RJ/MT-RJ Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105037-X
50/125 µm, OM2	Y-2105038-X
50/125 µm, OM3	Y-2105039-X
9/125 µm, OS2	Y-2105040-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

This SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE Jacks..

MT-RJ/SC Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105045-X
50/125 µm, OM2	Y-2105046-X
50/125 µm, OM3	Y-2105047-X
9/125 µm, OS2	Y-2105048-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

This patch cord type is also available as SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE Jacks..

MT-RJ/LC Duplex Patch Cords

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Description	Part Number
62,5/125 µm, OM1	Y-2105041-X
50/125 µm, OM2	Y-2105042-X
50/125 µm, OM3	Y-2105043-X
9/125 µm, OS2	Y-2105044-X

Y - X	Length
0- -1	1 m
0- -2	2 m
0- -3	3 m
0- -5	5 m
1- -0	10 m

Other lengths
on request!

This patch cord type is also available as SECURE product, coded with 10 different mechanical keys and colors. To be used with SECURE Jacks .

TE
connectivity

MT-RJ Jack Pigtails

FEATURES:

- Fits in all TE Connectivity MT-RJ patch panels
- colored housing optional available
- Technical specifications see page 120
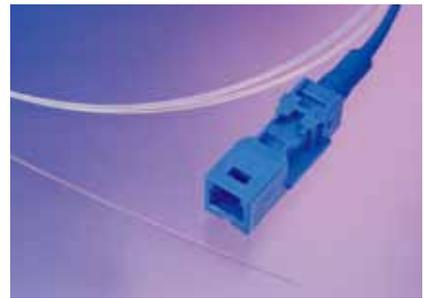
ORDERING INFORMATION

Description	Fiber	Color	Length	Part Number
MT-RJ Jack Pigtail	62,5/125 µm, OM1	Black	3 m	6348941-1
MT-RJ Jack Pigtail	50/125 µm, OM2	Black	3 m	6348942-1
MT-RJ Jack Pigtail	10 GBit XG, 50/125 µm, OM3	Black	3 m	6536556-1
MT-RJ Jack Pigtail	9/125 µm, OS2	Blue	3 m	6391366-1
Single housing	–	See table	–	1374416-X

ST-ST 900 um patch cord*

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Fiber	Part Number
62,5/125 µm, OM1	2105009-X
50/125 µm, OM2	2105010-X
50/125 µm, OM3	2105011-X
9/125 µm, OS2	2105012-X

- X	Length
-1	1m
-2	2m

Other lengths
on request!

* cut it into two pieces for pigtails.

SC-SC 900 um patch cord*

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Fiber	Part Number
62,5/125 µm, OM1	2105005-X
50/125 µm, OM2	2105006-X
50/125 µm, OM3	2105007-X
9/125 µm, OS2	2105008-X

- X	Length
-1	1m
-2	2m

Other lengths
on request!

* cut it into two pieces for pigtails.

3. Fiber Optic (FO) Cabling System

LC-LC 900 um patch cord*

FEATURES:

- Technical specifications see page 120

ORDERING INFORMATION

Fiber	Part Number
62,5/125 µm, OM1	2105001-X
50/125 µm, OM2	2105002-X
50/125 µm, OM3	2105003-X
9/125 µm, OS2	2105004-X

- X	Length
-1	1m
-2	2m

Other lengths
on request!

* cut it into two pieces for pigtails.

Fiber Optic (FO) Cabling Systems
Storage Area Management (SAM)

SAM Rack Mount Optical Fiber Enclosures and Accessories

FEATURES:

- Accept 12 SAM adaptor plates

- Angled front face for improved visibility and cable management

- Rugged aluminum construction

- Internal guides to ease installation of trunk assemblies

- Adjustable front and rear mounting brackets included

- Panel labeling on rear to simplify location and documentation

ORDERING INFORMATION

Product Description	Part Number
Rack Mount Patch Enclosure, 2U MPO SECURE	1553761-1

SAM Far End Enclosures and Accessories

FEATURES:

- Accept MPO trunk assemblies (on page 129) at rear and standard LC assemblies in the front

- Available in 48-port (96-fiber) and 32-port (64-fiber)

- Maintain same port identity and labeling scheme as the hydra assemblies

- Removable Rear Mounting Bar included

ORDERING INFORMATION

Product Description	Part Number	
SAM Far End Enclosure, 1U MPO to Quad LC	**32-Port**	**48-Port**
XG OM3 (850 nm LO 50 µm) Multimode	1553533-2	1553533-1
Singlemode	1553657-2	1553657-1

Q3000 SAM Blades

FEATURES:

- Takes place of SAM Far End Enclosures

- Compatible with standard Q3000 frame (Reference Q3000 Series Fiber Panels, literature number 109952AE)

- Maintains port similarity with switches and SAM MPO linecard kits

- Each blade supports two SAM Trunks

- 16 LC duplex ports (32 fibers) per 1/2 RU blade

- OM3/OM4 and OS2 Versions

- Fully pre-assembled and pre-tested

ORDERING INFORMATION

Product Description	Part Number	Fiber/ Port Count	Front/Rear Connector
Q3000 SAM Blade OM3/OM4	QUFB-32FDLCMMHR	32/16	Duplex LC/MPO
Q3000 SAM Blade Single Mode	QUFB-32FDLCSMHR	32/16	Duplex LC/MPO

Fiber Optic (FO) Cabling Systems
Storage Area Management (SAM)

SAM MPO Linecard Kits

FEATURES:

- Linecard dedicated kits to minimize cable slack

- Each kit includes all hydra assemblies and adaptor plates for associated linecard

- Pre-labeled duplex LC, MPO plug assemblies, and adaptor plate, for efficient installation

- Simplifies ordering and installation process

- Color coded adaptors minimize risk of improper plugging

- MPO connectors feature color coded keying for proper mating

- Blank plates, cable management plates, and other components also available

- Parking caps included for empty transceiver slots

ORDERING INFORMATION

	Plates	Hydras	Part Number
16-Port Kit			
XG OM3 (850 nm LO 50 µm) Multimode	2193050-1	1553608-1, 1553609-1	2193057-1
Singlemode	2193050-1	1553635-1, 1553636-1	2193058-1
32-Port Kit			
XG OM3 (850 nm LO 50 µm) Multimode	2193051-1	1553608-1, 1553608-2, 1553609-1, 1553609-2	2193057-2
Singlemode	2193051-1	1553635-1, 1553635-2, 1553636-1, 1553636-2	2193058-2
48-Port Kit			
XG OM3 (850 nm LO 50 µm) Multimode	2193052-1	1553527-1, 1553527-2, 1553528-1, 1553528-2, 1553529-1, 1553529-2	2193057-3
Singlemode	2193052-1	1553676-1, 1553676-2, 1553677-1, 1553677-2, 1553678-1, 1553678-2	2193057-3
64-Port Kit			
XG OM3 (850nm LO 50 µm) Multimode	2193016-1	2193045-1, 2193045-2, 2193046-1, 2193046-2, 2193047-1, 2193047-2, 2193048-1, 2193048-2	2193057-4
Singlemode	2193016-1	2193053-1, 2193053-2, 2193054-1, 2193054-2, 2193055-1, 2193055-2, 2193056-1, 2193056-2	2193058-4

TE connectivity

Fiber Optic (FO) Cabling Systems
Storage Area Management (SAM)

SAM MPO Trunk Cable Assemblies

FEATURES:

- 24-fiber assemblies (16 active when mated to hydras) provide an upgrade path to 40 and 100 GbE

- Mate with SAM adaptor plates and SAM Far End Enclosures

- Non-keyed MPO interface

- OFNR/OFNP rated

- Pre-tested and ready to install

- Additional lengths are available, please contact TE for details

ORDERING INFORMATION

End A	End B	Length	Part Number	
			XG OM3 (850 nm LO 50 μm) Multimode	**Singlemode**
		3 m (10')	1553534-1	1553640-1
		6 m (20')	1553534-2	1553640-2
		9 m (30')	1553534-3	1553640-3
		12 m (40')	1553534-4	1553640-4
		15 m (50')	1553534-5	1553640-5
MPO	MPO	18 m (60')	1553534-6	1553640-6
		21 m (70')	1553534-7	1553640-7
		24 m (80')	1553534-8	1553640-8
		27 m (90')	1553534-9	1553640-9
		30 m (100')	1-1553534-0	1-1553640-0

SAM MPO Hydra Cable Assemblies

FEATURES:

- 8-Port/16-fiber assemblies

- Length optimized for minimum slack

- MPO connectors feature color coded keying for proper mating

- Individually labeled legs

- Replacement/upgrade hydras available. See SAM MPO linecard kits for details.
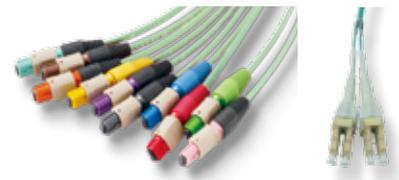
Fiber Optic (FO) Cabling Systems
Storage Area Management (SAM)

SAM MPO Adaptor Plates

FEATURES:

- Adaptor counts match 16, 32, 48 and 64-port blades

- Color-coded keying on adaptors minimize risk of improper mating (keying on hydra side only—trunk side is not keyed)

- Port numbering matches blades

- Robust screw-in mounting system

- Blank plates and cable management plates available

- Replacement/upgrade hydras available. See SAM MPO linecard kits for details.

ORDERING INFORMATION

Description	Coupling Adaptor/Interface	Part Number
Adaptor Plate	Blank with Cable Management	2111481-1

SAM System Miscellaneous Components

FEATURES:

- Mounts to the back of 19-inch racks

- Designed to provide additional cable support and routing control behind 19-inch racks and panels

- Slotted manager bar for easy tie down

- Horizontal and vertical mounting option for tie down bar

ORDERING INFORMATION

Description	Part Number
Cable Management Bracket Kit	1553658-1

TE connectivity

4. Ethernet LAN Solutions

4. Ethernet LAN Solutions

Ethernet LAN Solutions
PoE Equipment

Power over Ethernet (PoE) according to IEEE 802.3af defines the simultaneous provision of low voltage and Ethernet data signals over a cabling system compliant to the ISO/IEC 11801 standard. Now, remote devices like VoIP phones, W-LAN Access Points, security devices and much more can be powered remotely.

COMMON FEATURES:

- Supports 10/100/1000 MBit/s Ethernet

- Allows the insertion of power into as many as 8 (8 port version) or 24 outlets (24 port version)

- IEEE 802.3af compliant

24 Port PoE Gigabit Midspan Unit

FEATURES:

- 24 Port PoE Midspan Unit

- 19″ rack mountable

- Universal 110/220 V (50/60 Hz) power supply

- Supports pre-standard CISCO PoE devices (PoE converter needed)

- Managed option available

ORDERING INFORMATION

Description	Part Number
24 Port PoE Midspan unit, power over unused pairs, standard	1591187-X
24 Port PoE Midspan unit, power over unused pairs, SNMP managed	1-1591187-X
24 Port PoE Midspan unit, phantom power, standard	2-1591187-X
24 Port PoE Midspan unit, phantom power, SNMP managed	3-1591187-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

8 PORT MODULAR POE GIGABIT MIDSPAN UNIT

FEATURES:

- 8 Port Modular PoE Midspan Unit

- Power over unused pairs

- 19″ rack mountable (with mounting frame)

- Universal 110/220 V (50/60 Hz) power supply

- Full power on every port (15.4 W)

- Up to 3 devices can be mounted into a 19″, 1 U mounting frame

- Supports pre-standard CISCO PoE devices (PoE Converter needed)

ORDERING INFORMATION

Description	Part Number
8 Port PoE Midspan unit, power over unused pairs	1591188-X
19″ mounting frame 1 U for 3 Midspan units	1591185

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

TE
connectivity

PoE Converter for Pre-standard CISCO PoE Devices

FEATURES:

- Changes the pin-out to run pre-standard CISCO devices

- Shielded Cat. 5E cable assembly

- To be used with 24 Port Midspan unit

- Length 15 cm

ORDERING INFORMATION

Description	Part Number
PoE pre-standard converter	1711425-1

Ethernet LAN Solutions
Ethernet Media Converters

Media Converters support all current Ethernet standards and enable easy extension of 10Base-T, 100Base-TX and 1000Base-T RJ-45 LAN circuits from routers, switches, NICs and other Ethernet devices over optical fibers. This allows greater distances to be covered or, for example, the connection of two workgroups. Support for single fiber WDM also available.

COMMON FEATURES:

- Easy Plug-and-Play installation
- Auto negotiates the required data rate
- Auto-MDI/MDI-X detection – eliminates cross-over cables
- Increased network resilience through Link Loss Forwarding
- Both SM and MM supported
- Single fiber WDM converters supported
- Rack mountable
- External main power supply and rack mount kits are provided

10/100 MBit/s Ethernet Media Converter

FEATURES:

- 10/100 MBit/s RJ-45 Copper port
- Auto-MDI/MDI-X detection
- 100Base-FX fiber port
- Dimensions: 85 x 120 x 26 mm (W x D x H)

ORDERING INFORMATION

Description	Part Number
10/100M Multimode SC Media Converter	1591024-X
10/100M Multimode ST-Style Media Converter	1591026-X
10/100M Multimode MT-RJ Media Converter	1591028-X
10/100M Singlemode – Single Fiber WDM 1550 nm Converter	1591029-X
10/100M Singlemode SC Media Converter	1591030-X
10/100M Singlemode – Single Fiber WDM 1310 nm Converter	1591031-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

Gigabit Ethernet Media Converter

FEATURES:

- 10/100/1000 MBit/s RJ-45 Copper port
- Auto-MDI/MDI-X detection
- 1000Base-SX or 1000Base-LX fiber port
- Dimensions: 85 x 120 x 26 mm (W x D x H)

ORDERING INFORMATION

Description	Part Number
1000Base-SX (multimode) Media Converter	1591020-X
1000Base-LX (singlemode) Media Converter	1591022-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

TE connectivity

10 Slot 19" Rack Mount Chassis System

FEATURES:

- Supports up to 10 Media Converters

- Different Media Converter types can be mixed

- Hot-Swappable Converters

- A second power supply can be fitted

- Exceptionally reliable dual redundant power system can be Hot-Swapped

- Dimensions: 440 x 226 x 133 mm (W x D x H)

- Internal cooling fan

- Includes kit for mounting in 19" racking

ORDERING INFORMATION

Description	Part Number
10 Slot Chassis System with 1 Power Unit	1591032-X
Spare/Redundant AC Power Unit for Chassis	1591034

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

4. Ethernet LAN Solutions

Ethernet LAN Solutions
SNMP Managed Media Converters

This range of fully managed Media Converters support all current Ethernet standards and enable easy extension of 10Base-T, 100Base-TX and 1000Base-T RJ-45 LAN circuits from routers, switches, NICs and other Ethernet devices over managed optical fibers. Located in a 19" chassis system they are ideal for telecom and corporate applications where a number of fiber links need to be managed and controlled from a central location.

COMMON FEATURES:

• Easy Plug-and-Play installation

• Auto negotiate the required data rate

• Auto-MDI/MDI-X detection – eliminates cross-over cables

• Increased network resilience through Link Loss Forwarding

• Both SM and MM fibers supported

• Single fiber WDM converters supported

• Rack mountable

• AC and DC PSUs supported

• 16 individual Plug in cards supported

• Management by Console, Web or SNMP

SNMP Managed Ethernet Converter Card

FEATURES:

• 10/100/1000 MBit/s RJ-45 Copper port

• Auto-MDI/MDI-X detection

• Full configuration via managed chassis

• 100Base-FX fiber port

• Link loss forwarding

• Range of fiber optic ports

• Supports TS1000 functionality

ORDERING INFORMATION

Description	Part Number
1000M Multimode SX SC Media Converter	1591510-0
1000M Singlemode LX SC Media Converter	1591512-0
10/100M Multimode SC Media Converter	2-1591526-0
10/100M Multimode ST Media Converter	2-1591529-0
10/100M Singlemode SC Media Converter	2-1591525-0
10/100M Singlemode – Single Fiber WDM 1310 nm Converter	2-1591527-0
10/100M Singlemode – Single Fiber WDM 1550 nm Converter	2-1591528-0

TE connectivity

16 Slot 19" Rack Mount SNMP Chassis System

FEATURES:

- Supports up to 16 fully managed media converters

- Management card included

- Different media converter types can be mixed

- Hot-swappable converters

- A second power supply can be fitted

- Exceptionally reliable dual redundant power system can be hot-swapped

- Internal cooling fans

- Includes kit for mounting in 19" racking

ORDERING INFORMATION

Description	Part Number
16 Slot SNMP Managed Converter Chassis (AC)	1591500-X
Spare/Redundant AC Power Unit	1591504

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

Ethernet LAN Solutions
Ethernet Compact Switches

These un-managed switches are simple plug-and-play units that can be used "straight from the box". This makes them ideal for local workgroups, small offices and SOHO applications. Some switches have either a fixed or optional fiber uplink port to enable high-speed connections to backbones, servers and NIC cards.

Common Features:

- 10/100/1000 MBit/s RJ-45 copper ports (UTP/STP)
- Auto-negotiation
- Auto-MDI/MDI-X detection – eliminates cross-over cables
- Easy Plug-and-Play installation
- LED's display switch status

5 Port Compact Ethernet Switch

FEATURES:

- 5 RJ-45 Copper ports
- All 5 ports up-linkable via auto-MDI/MDI-X detection
- 10/100/1000 MBit/s
- External power supply provided
- Dimensions: 164 x 100 x 26 mm (W x D x H)
- Weight 2 kg

ORDERING INFORMATION

Description	Part Number
5 Port Compact Ethernet Switch	1591081-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

8 Port Compact Ethernet Switch

FEATURES:

- 8 RJ-45 Copper ports
- All 8 ports up-linkable via auto-MDI/MDI-X detection
- 10/100/1000 MBit/s
- External power supply provided
- Dimensions: 164 x 100 x 26 mm (W x D x H)
- Weight 2 kg

ORDERING INFORMATION

Description	Part Number
8 Port Compact Ethernet Switch	1591083-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

TE connectivity

16 Port Compact Ethernet Switch

FEATURES:

- 16 RJ-45 Copper ports
- 10/100 MBit/s
- Internal AC auto-ranging power supply
- Dimensions: 250 x 133 x 37 mm (W x D x H)
- Weight 2.0 kg
- Includes kit for mounting in 19" racking

ORDERING INFORMATION

Description	Part Number
16 Port Compact Ethernet Switch	1591070-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

24 Port Compact Ethernet Switch

FEATURES:

- 24 RJ-45 Copper ports
- 10/100 MBit/s
- Internal AC auto-ranging power supply
- Dimensions: 250 x 133 x 37 mm (W x D x H)
- Weight 2.0 kg
- Includes kit for mounting in 19" racking

ORDERING INFORMATION

Description	Part Number
24 Port Compact Ethernet Switch	1591072-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

4. Ethernet LAN Solutions

These high performance Ethernet smart switches are ideal for linking small workgroups or departments to remote servers or routers using the 100 MBit/s uplink port. These are simple to use plug-and-play devices and can be used "straight from the box". In addition these smart switches can be configured using the local RS232 console port to control functions such as VLAN assignments and port enable/disable modes.

COMMON FEATURES:

• 10/100 MBit/s RJ-45 copper ports (UTP/STP)

• Auto-negotiation

• Auto-MDI/MDI-X detection – eliminates cross-over cables

• LED's display switch status

• Manageable via RS232 console port

• Management allows Ports and VLANs to be controlled and duplex modes set

• Internal AC auto-ranging power supply

8 Port 10/100 MBit/s Smart Switch With Integrated Fiber Uplink

FEATURES:

• 8 RJ-45 Copper ports + 1 fiber uplink port (100Base-FX)

• Dimensions: 250 x 132 x 37 mm (W x D x H)

• Weight 1.0 kg

• Fits 10" racking

ORDERING INFORMATION

Description	Part Number
8 Port S/UTP Smart Switch with MM SC uplink	1591038-X
8 Port S/UTP Smart Switch with MM ST-style uplink	1591040-X
8 Port S/UTP Smart Switch with MM MT-RJ uplink	1591042-X
8 Port S/UTP Smart Switch with SM SC uplink	1591044-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

24 Port 10/100 MBit/s Smart Switch II With Optional Dual Fiber Uplink

FEATURES:

- 24 RJ-45 Copper ports

- 10/100 MBit/s

- Opt. 100Base-FX Fiber or Dual GBit Uplink available

- Dimensions: 440 x 230 x 44 mm (W x D x H)

- Weight 2.5 kg

- Includes kit for mounting in 19" racking

ORDERING INFORMATION

Description	Part Number
24 Port S/UTP Smart Switch II	1591093-X
SC Multimode Fiber Plug-In Option Module	1591094
ST Multimode Fiber Plug-In Option Module	1591095
SC Singlemode Fiber Plug-In Option Module	1591096
Dual SC Gigabit Multimode SX Option Module	1591097
Dual SC Gigabit Singlemode LX Option Module	1591098
Dual Gigabit Copper 1000Base-T Option Module	2-1591019-0

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

These easy to install, high performance switches support SNMP, VLANs and Quality-of-Service. This capability is ideal for network managers who want to have full control of their network and plan to implement these switches in distributed workgroups.

COMMON FEATURES:

- 10/100 MBit/s RJ-45 copper ports (UTP/STP)

- Auto-negotiation

- Auto-MDI/MDI-X detection – eliminates cross-over cables (not on 16 port version)

- Easy Plug-and-Play installation

- LED's display switch status

- Manageable via RS232 console port and web browser

- Management allows Ports and VLANs to be controlled and duplex modes set

- Spanning Tree Protocol support

- Internal AC auto-ranging power supply

8 Port 10/100 MBit/s SNMP Smart Switch With Integrated Fiber Uplink

FEATURES:

- 8 RJ-45 Copper ports + 1 fiber uplink port (100Base-FX)

- Dimensions: 250 x 132 x 37 mm (W x D x H)

- Weight 1.0 kg

- Fits 10" racking

- Kit for mounting in 19" racking available on Page "Rack Mount Kit" on page 144

ORDERING INFORMATION

Description	Part Number
8 Port S/UTP SNMP Smart Switch with MM SC uplink	1591074-X
8 Port S/UTP SNMP Smart Switch with MM ST-style uplink	1591076-X
8 Port S/UTP SNMP Smart Switch with MM MT-RJ uplink	1591078-X
8 Port S/UTP SNMP Smart Switch with SM SC uplink	1591080-X

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

Ethernet LAN Solutions
Ethernet SNMP Managed Switches

24 Port 10/100 MBit/s Stackable SNMP Switch With Optional Dual Uplink

FEATURES:

- 24 RJ-45 copper ports (UTP/STP)

- 10/100 MBit/s

- Support IP Management Stacking

- Can support 8 Units per IP Stack

- Support for Single Optional 100 Mbit/s Fiber Uplink

- Support for Dual Gigabit Optional fiber or UTP/STP

- Dimensions 440 x 161 x 44 mm (W x D x H)

- Weight 2.0 kg

- Includes Kit for mounting in 19" racking

ORDERING INFORMATION

Description	Part Number
24 Port Stackable Managed Switch	1591099-X
100Base-FX SC Multimode Fiber Plug-In Option Module	1591094
100Base-FX ST Multimode Fiber Plug-In Option Module	1591095
100Base-FX SC Singlemode Fiber Plug-In Option Module	1591096
Dual Gigabit Multimode SX Plug-In Option Module	1591097
Dual Gigabit Singlemode LX Plug-In Option Module	1591098
Dual Gigabit Copper 1000Base-T Plug-In Option Module	2-1591019-0

- X	Power Cord for
-1	US Standard
-6	Australia / China
-7	BS Standard

4. Ethernet LAN Solutions

Rack Mount Kit

FEATURES:

- Rack Mount kit to enable 250 mm wide devices to be installed in 19″ racking

ORDERING INFORMATION

Description	Part Number
19″ Rack Mount Kit	1591068

International Power Supplies:

All products are supplied with the required power cord. To specify the correct power cord for your country substitute the number below for the '-x' suffix in the order code. The most common types are shown below – international types also available on request.

USA	Australia/China	BS - standard
Suffix: **-1**	Suffix: **-6**	Suffix: **-7**

---

5. Universal Outlets/Faceplates (unpopulated)

Universal Outlets/Faceplates (unpopulated)
BS Installation Environments

British Style Angled, Shuttered Faceplate

FEATURES:

- "Decorator" BS Angled Faceplate
- Dimension: 86mm X 86mm BS
- Spring loaded, transparent shutter
- Detachable front cover
- Accepts Most SL / AMP-TWIST Series Jacks*
- Colour: White
- Screws and label holder included

ORDERING INFORMATION

Description	Part Number
Single Port, unloaded	1859167-1
Dual Port, unloaded	1859168-1

* except 110Connect Cat 5e Shielded Jack

British Style Angled Faceplate

FEATURES:

- BS Angled Faceplate
- Dimension: 86mm X 86mm BS
- Accepts all SL / AMP-TWIST Series Jacks
- Colour: White
- Standard icons, screws and label holder included

ORDERING INFORMATION

Description	Part Number
Dual Port, unloaded	1427003-2
Quad Port, unloaded	1427023-2

TE connectivity

British Style Standard Faceplate

FEATURES:

- BS Standard Faceplate

- Dimension: 86mm X 86mm BS

- Spring loaded Shutter

- Accepts all SL / AMP-TWIST Series Jacks

- Colour: White

- Screws and label holder included

ORDERING INFORMATION

Description	Part Number
Single Port, unloaded	1859049-1
Dual Port, unloaded	1859050-1
Quad Port, unloaded	1859053-1

Universal Outlets/Faceplates (unpopulated)
US Installation Environments

Standard USA faceplates

FEATURES:

- Accepts all AMP-TWIST jacks, SL Series jacks, MT-RJ outlet jacks and SL Series inserts
- Faceplate dimensions:
  2.75 in (69.85 mm) x 4.5 in (114.30 mm) x 0.22 in (5.59 mm)
- Label viewing area with integrated label covers that flip down and Snap-in place
- Extender kits are used to add 0.5 inches of space between the mounting surface and the faceplate
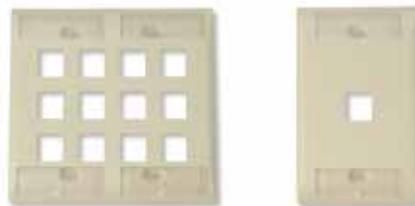
ORDERING INFORMATION

Description	Part Number
Port Count: 1; Single Gang; Orientation: Vertical	0-2111008-1
Port Count: 2; Single Gang; Orientation: Vertical	0-2111009-1
Port Count: 3; Single Gang; Orientation: Vertical	0-2111010-1
Port Count: 4; Single Gang; Orientation: Vertical	0-2111011-1
Port Count: 6; Single Gang; Orientation: Vertical	0-2111012-1
Port Count: 6; Double Gang; Orientation: Vertical	0-2111013-1
Port Count: 8; Double Gang; Orientation: Vertical	0-2111014-1
Port Count: 12; Double Gang; Orientation: Vertical	0-2111015-1
Extender Kit	0-2111201-1
Port Count: 4; Single Gang; Orientation: Horizontal	0-2111203-1

Y-	-X	Color
0-	-1	Almond
0-	-2	Black
0-	-3	White
0-	-4	Gray
1-	-1	Electrical Ivory

Modular Jack Boxes

FEATURES:

- Accepts Standard 110Connect and SL series jacks (except AMP-TWIST jacks)
- Very compact
- Individual outlets are iconable (see "Icons" on page 195)
- Patented icon holes remain invisible when not used

ORDERING INFORMATION

Description	Part Number
1 Port	1116697-X
2 Port	1116698-X

- X	Color
-1	Almond
-3	Pure white

TE connectivity

AMP-TWIST SL Jack Office Boxes

FEATURES:

- Accepts AMP-TWIST jacks and all SL series jacks

- Compatible with most trunking

- High density

- Individual outlets are iconable (see "Icons" on page 195

- Patented icon holes remain invisible when not used

ORDERING INFORMATION

Description	Part Number
2 Port	1933287-X
4 Port	1933288-X

- X	Color
-1	Almond
-3	Pure white

Universal Office Boxes

FEATURES:

- 2, 4 and 6 port version accept all modular jacks (except AMP-TWIST jacks)

- 12 port version suitable also for AMP-TWIST jacks

- Low Profile

- Cable entry on three sides and base

- Individual outlets are iconable (see "Icons" on page 195

ORDERING INFORMATION

Description	Part Number
2 Port	1479488-X
4 Port	1479489-X
6 Port	1479490-X
12 Port	1479358-X
Blanking plate	1479494-X

- X	Color
-1	Almond
-3	Pure white

Surface Boxes

FEATURES:

- Back Box for Surface Mounting

- 44,5 mm depth and one piece construction simplifies installation

ORDERING INFORMATION

Description	Part Number
Single Gang	558251-X

- X	Color
-1	Almond
-3	Pure white

Blank Insert

FEATURES:

- Blank Insert to keep dust out of unused ports (not suitable for 110Connect Office Boxes)

ORDERING INFORMATION

Description	Part Number
Blank Insert (rear mounted)	1116412-X

- X	Color
-1	Almond
-3	Pure white

EtherSeal Stainless Steel Faceplates

FEATURES:

- Available in single and double gang

- Accepts EtherSeal Jack or Coupler Kits (not included, "EtherSeal Jack and Coupler Kits" on page 65)

- Sealing gasket options available

- Kit includes 2 (for single gang) or 4 (for double gang) 6/320 screws

ORDERING INFORMATION

Description	Part Number Without Gasket	Part Number With Gasket
Single Gang 1 Port	1479593-1	1479593-2
Single Gang 2 Port	1479594-1	1479594-2
Double Gang 4 Port	1479595-1	1479595-2
Double Gang 2 + 2 Port (2 x Etherseal, 2 x SL Jacks)	1479596-1	1479596-2

TE connectivity

Universal Outlets/Faceplates (unpopulated)
US Installation Environments

EtherSeal Enclosures

FEATURES:

- NEMA 4 and 4X rated
- IP67 compliant when installed per instruction sheets
- For indoor and outdoor use
- Provides fully sealed remote access to data and telephone services
- Cable and conduit glands seal cable/conduit entries
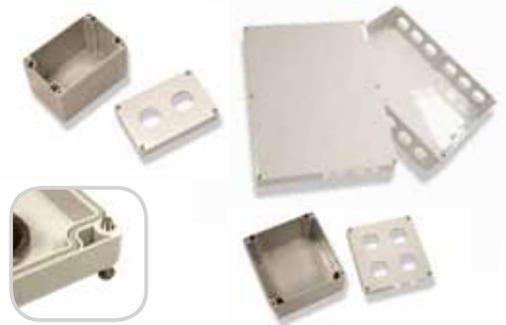
ORDERING INFORMATION

Description	Cable Exits	Conduit Exits	Part Number
Enclosure, 12 x EtherSeal	12 x M16	2 x M50	1479654-1
Enclosure, 4 x EtherSeal	4 x M16	1 x M50	1479655-1
Enclosure, 2 x EtherSeal	2 x M16	1 x M40	1479656-1

EtherSeal Cable & Conduit Glands

FEATURES:

- Cable and conduit glands provide a way to seal cable and or conduit entries into EtherSeal Connector Enclosures

ORDERING INFORMATION

Description	For use with	Part Number
Gland Kits M16	Cable	1479657-1
Gland Kits M40	3/4" Conduit	1479658-1
Gland Kits M50	1" Conduit	1479659-1

Surface Mount Modules and Accessories

FEATURES:

- Accept AMP-TWIST modular jacks and all SL Series modular jacks and inserts

- Can accommodate, larger diameter, Cat. 6$_A$ cables (FTP or UTP)

- Can accommodate fiber cable and connectors (MT-RJ, LC, simple SC, and ST) and includes fiber loop management

- Cover is secured by latches and screw for additional security

- Allows access to jacks and inserts while module is mounted

- Cable exits located on rear, bottom and both sides of modules

- Features cable entry strain relief

- Surface mount raceway compatible

- Can be mounted using screws, double sided foam tape, and magnets.

- Magnets are attached to each module using an integrated holder and are available separately

- "invisible" icon mounting holes allows the use of icons for port identification, but remain hidden until used

- 4 and 6-port versions can be mounted to both single and double gang electrical boxes

- Provided with a die-cut card stock label and clear label cover, squares of double-sided foam tape, self-tapping screws, and cable ties

- Optional, colored, label covers are available separately

- Magnets for surface mount modules allow for easy, flexible placement during and after installation and are made from neodvmium for superior hold strength

- Magnet mounting protects connections from damage if cables become snagged or stressed

ORDERING INFORMATION

Description		Figure	Part Number
Surface Mount Module	2-Port	A	1933668-X
	4-Port	B	1933671-X
	6-Port	C	1933674-X
Surface Mount Module Accessory	Clear Label Cover, for 2-Port		1375345-1
	Clear Label Cover, for 4 and 6-Port		1-1933814-9
	Magnet for Metal Surface Mounting	D	1933677-1

Y - X	Color
0- -1	Almond
0- -2	Black
0- -3	White
0- -4	Grey
1- -1	Electrical Ivory

Port Numbering and "invisible Icon Holes

Cable Eit Knockouts

Strain Relief Tie Downs

Magnets and Holder

Single/Double Gang Electrical Box Mounting Holes

Fiber Loop Managment

Faceplate Kit

ORDERING INFORMATION

Description	Part Number
1 Port Standard Faceplate Kit, Almond	272352-1
2 Port Standard Faceplate Kit, Almond	272352-2
1 Port Shutter Faceplate Kit, Almond	272368-1
2 Port Shutter Faceplate Kit, Almond	272368-2
1 Port Decorator Standard Faceplate Kit, White	1-272378-1
2 Port Decorator Standard Faceplate Kit, White	1-272378-2
3 Port Decorator Standard Faceplate Kit, White	1-272378-3

Category 6 Office Box SX Series

FEATURES:

- ISO/IEC 11801 Compliant
- TIA-568-C.2 Compliant
- RoHS Compliant
- 250MHz
- T568A/T568B
- AWG24 ~ 22

1 Port   2 Ports   3 Ports   4 Ports   6 Ports

ORDERING INFORMATION

Description	Dimension		Part Number
1 Port	H25mm×W34mm×D58mm	Jack Included	1674861-1
2 Ports	H25mm×W60mm×D58mm	Jack Included	1674862-1
3 Ports	H28mm×W102mm×D70mm	Jack Included	1717910-1
4 Ports	H28mm×W128mm×D70mm	Jack Included	1674863-1
6 Ports	H28mm×W180mm×D70mm	Jack Included	1674864-1

5. Universal Outlets/Faceplates (unpopulated)

Cat. 5e Office Box EHR Series

FEATURES:

- ISO/IEC 11801 Compliant
- TIA-568-C.2 Compliant
- RoHS Compliant
- 100MHz
- T568A/T568B
- AWG24 ~ 22

1 Port   2 Ports   3 Ports

4 Ports   6 Ports
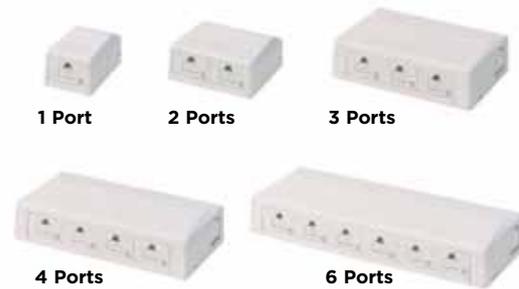
ORDERING INFORMATION

Description	Dimension		Part Number
1 Port	H25mm×W34mm×D58mm	Jack Included	1903735-1
2 Ports	H25mm×W60mm×D58mm	Jack Included	1903736-1
3 Ports	H28mm×W102mm×D70mm	Jack Included	1903737-1
4 Ports	H28mm×W128mm×D70mm	Jack Included	1903738-1
6 Ports	H28mm×W180mm×D70mm	Jack Included	1903739-1

Cat. 5e Office Box EH Series

FEATURES:

- ISO/IEC 11801 Compliant
- TIA-568-C.2 Compliant
- RoHS Compliant
- 100MHz
- T568A/T568B
- AWG24 ~ 22

1 Port   2 Ports   3 Ports

4 Ports   6 Ports
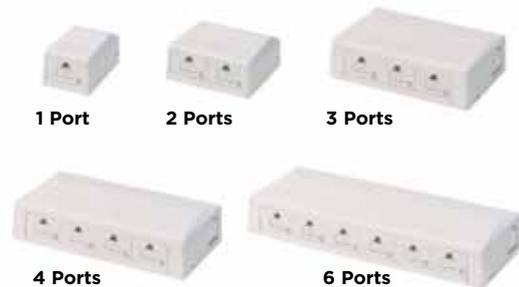
ORDERING INFORMATION

Description	Dimension		Part Number
1 Port	H25mm×W34mm×D58mm	Jack Included	1123866-1
2 Ports	H25mm×W60mm×D58mm	Jack Included	1123867-1
3 Ports	H28mm×W102mm×D70mm	Jack Included	1717836-1
4 Ports	H28mm×W128mm×D70mm	Jack Included	3-178588-5
6 Ports	H28mm×W180mm×D70mm	Jack Included	1123868-1
12 Ports	H37mm×W217mm×D125mm	Jack Included	1-178588-1

5. Universal Outlets/Faceplates (unpopulated)

AMPLET Office Box

FEATURES:

- Design for shutter jacks

- Suitable for colour combination & Cat. (EHR Series modular jacks)

- Design for Cat. 6 (SX Series)

ORDERING INFORMATION

Description	Dimension	Part Number
1 Port	H25mm×W34mm×D58mm	1427008-1
2 Ports	H25mm×W60mm×D58mm	1427009-1
3 Ports	H28mm×W102mm×D70mm	1717909-1
4 Ports	H28mm×W128mm×D70mm	1427010-1
6 Ports	H28mm×W180mm×D70mm	1427011-1

Cat. 6 Shutter Modular jacks SX Series

FEATURES:

- Suitable for AMPLET Office box

- ISO/IEC 11801 Compliant

- TIA-568-C.2 Compliant

- RoHS Compliant

- 250MHz

- T568A/T568B

ORDERING INFORMATION

Series	Cable Type	Color	Part Number
SX Series	AWG 24-22 Solid, AWG24-26 straded, insulation thickness below 1.45 mm	White	1427006-1
		Black	1427006-2
		Red	1427006-3
		Blue	1427006-4
		Green	1427006-5
		Orange	1427006-6
		Yellow	1427006-7

5. Universal Outlets/Faceplates (unpopulated)

Cat. 5e Shutter Modular Jack   EHR Series

FEATURES:

- Suitable for AMPLET Office box
- ISO/IEC 11801 Compliant
- TIA-568-C.2 Compliant
- RoHS Compliant
- 100MHz
- T568A/T568B

ORDERING INFORMATION

Series	Cable Type	Color	Part Number
EHR Series	AWG24-22 Solid, AWG24-26 straded Insulation thickness below 1.45 mm	White	1903402-1
		Black	1903402-2
		Red	1903402-3
		Blue	1903402-4
		Green	1903402-5
		Orange	1903402-6
		Yellow	1903402-7

TEL Shutter Modular Jack TL Series

FEATURES:

- Suitable for AMPLET office box
- RoHS Compliant
- T568A/T568B

2-178588-4

ORDERING INFORMATION

Series	Cable Type	Color	Part Number
TL Series	AWG24-22 Solid Insulation thickness below 1.2 mm	White	2-178588-4

Universal Outlets/Faceplates (unpopulated)

Office Boxes

Blank Cover

FEATURES:

- Suitable for AMPLET office box
- To fill in empty port

2-178588-5

ORDERING INFORMATION

Content	Color	Part Number
Blank Cover	White	2-178588-5

Cat. 6 Wall Plate Type SX-W Series

FEATURES:

- ISO/IEC 11801 Compliant
- TIA-568-C.2 Compliant
- RoHS Compliant
- 250MHz
- T568A/T568B
- Strain relief included

ORDERING INFORMATION

Type	Cable Type	Color	Part Number
SX-W Series	AWG24-22 Solid, AWG24-26 Straded Insulation thickness below 1.45 mm	Beige	1427007-1
		Black	1427007-2
		Red	1427007-3
		Blue	1427007-4
		Green	1427007-5
		Orange	1427007-6
		Yellow	1427007-7
		White	1427007-8

5. Universal Outlets/Faceplates (unpopulated)

Cat. 5e Wall Plate Type EHR-W Series

FEATURES:

- ISO/IEC 11801 Compliant
- TIA-568-C.2 Compliant
- RoHS Compliant
- 100MHz
- T568A/T568B
- Strain relief included

ORDERING INFORMATION

Type	Cable Type	Color	Part Number
EHR-W Series	AWG24-22 Solid, AWG24-26 straded Insulation thickness below 1.45 mm	Beige	1903403-1
		Black	1903403-2
		Red	1903403-3
		Blue	1903403-4
		Green	1903403-5
		Orange	1903403-6
		Yellow	1903403-7
		White	1903403-8

TEL Wall Plate Type TL-W Series

FEATURES:

- RoHS Compliant
- "TEL" mark included

ORDERING INFORMATION

8-178562-2

Type	Cable Type	Color	Part Number
TL-W Series	AWG24-22 Solid Insulation thickness below 1.27 mm	Beige	8-178562-2

Universal Outlets/Faceplates (unpopulated)

Office Boxes

Wall Plate Type JIS Series

FEATURES:

- For SL type modular jacks

- RoHS compliant

- Strain relief included

ORDERING INFORMATION

Description	Color	Part Number
JIS adapter with Cat. 6$_A$ logo	Beige	2069061-1
JIS adapter with Cat. 6 logo	Beige	2069061-2
JIS adapter with Cat. 5e logo	Beige	2069061-3
JIS adapter with TEL logo	Beige	2069061-4
JIS adapter with Cat. 6$_A$ logo	White	2069062-1
JIS adapter with Cat. 6 logo	White	2069062-2
JIS adapter with Cat. 5e logo	White	2069062-3
JIS adapter with TEL logo	White	2069062-4

5. Universal Outlets/Faceplates (unpopulated)

Universal Outlets/Faceplates (unpopulated)
Office Boxes

600 Office Box

FEATURES:

- For SL Series Modular Jacks (except AMPTWIST)
- With Magnet
- For SL Series Modular Jacks
- RoHS Compliant

601 Office Box   **602 Office Box**   **603 Office Box**

604 Office Box   **606 Office Box**

ORDERING INFORMATION

Name	No. of Ports	Dimension (mm)	Part Number
601 Office Box	1	W32×D51×H19.1	1674939-1
602 Office Box	2	W44×D74×H25	1674940-1
603 Office Box	3	W59.4×D80×H25	1674941-1
604 Office Box	4	W75.1×D80×H25	1674942-1
606 Office Box	6	W144.9 55 ×D85×H28	1674943-1

Lan+Voice Office Box

FEATURES:

- Made from ABS UL 94V0 rated plastic
- Only supports LAN+Voice modular jacks part no. 1427077-x
- Double-sided tape and 2 mounting screws included
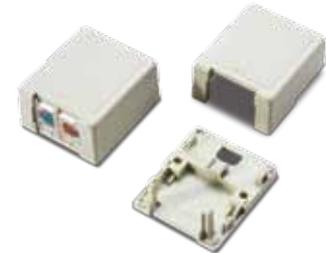
ORDERING INFORMATION

Description	Part Number
LAN+Voice Office Box	1859037-X

- X	Color
-1	Almond
-2	Black

Lan+Voice Modular Jack

FEATURES:

- Each jack supports one 6-position RJ-11 port for voice application and one 8-position RJ-45 port for LAN application
- LAN support for 10/100 Base-T
- Terminated with 4-pair balanced cable supporting shared sheath applications
- Only fits JMO Patch panel part no. 1859000- and general National power faceplate.

ORDERING INFORMATION

Description	Part Number
LAN+Voice Modular Jack	1427077-X

- X	Color
-1	Almond
-2	Black

TE connectivity

6. Cable Management

6. Cable Management

High-Density Front-Loading Cable Managers for Cabinets

FEATURES

- Offers bend radius (according to ISO/IES 11801:2002 table 25) and mechanical protection
- Rubber entry/exit retainers ensure cable captivity preventing accidental disturbance of patch cords
- Suitable for Twisted Pair & Fiber Optic patch cords

ORDERING INFORMATION

Description	Part Number
High-Density Front-Loading Cable Managers 1U	0-1671495-1
High-Density Front-Loading Cable Managers 2U	0-1671495-2
High-Density Front-Loading Cable Managers 4U	0-1671495-4
High-Density Front-Loading Cable Managers 6U	0-1671495-6
High-Density Front-Loading Cable Managers 15U	1-1671495-5

Top-Loading Cable Managers for cabinets

FEATURES

- Bend controlled exit of patchcords acc to ISO/IEC 11801:2002 table 25
- Re-openable cover for ease of MAC-operations
- Stressless cable holding eliminates radial compression of cables
- Suitable for twisted pair & fiber cords

ORDERING INFORMATION

Description	Part Number
Top-Loading 1 U cable managers	0-1671132-1
Top-Loading 2 U cable managers	0-1671132-2
Top-Loading 4 U cable manager	0-1671132-4
Top-Loading 6 U cable managers	0-1671132-6
Top-Loading 15 U cable managers	1-1671132-5
Top-Loading cable manager clip	0-1671184-1

2 U Pass Through Duct

- 2 U pass through duct
- Allows left to right side patching as well as front to back patching and intra-cabinet patching
- Hinged access cover ensures accessibility of installed Patch Cords

ORDERING INFORMATION

Description	Part Number
2 U pass through duct	1-1671080-2

6. Cable Management

TE connectivity

Cable Management

1 U Blind Panels

FEATURES

- 1 U blind panels
- Angled version to fill gaps between angled panels
- Straight version to fill gaps between straight panels or active equipment

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
1 U blind panel angled	0-1671113-1
1 U blind panel straight	0-1671113-2

UCP Patch Panel Angled and Flushmount

FEATURES

- 19" 1U unloaded modular patch panel with support for 4 UCP modules
- Angled and flush style panels available
- Modular, rear cable management for both horizontal Copper and Fiber cables

- Accepts Pre-terminated Cu or FO cassettes or Field-terminated Copper modules
- Including grounding bolt

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
UCP Patch Panel 1U Angled	1-1671590-1
UCP Patch Panel 1U Flush	1-1671594-1

Xtra-U Fiber Panel with Cable Management

FEATURES

- 3U Bracket to support a single MPOptimate Quick-Fit cassette
- Management rings to store and protect excess MPOptimate trunk cables
- Including grounding bolt

ORDERING INFORMATION

Description	Part Number
Xtra-U Fiber Panel with Cable Management (for standard racks)	1-1671547-1
Xtra-U Fiber Panel with Cable Management (for NETpodium rack)	1-1671550-1

6. Cable Management

Xtra-U Copper Panel without Cable Management

FEATURES

- 3U Bracket to support a single Copper Quick-Fit cassette or module
- Including grounding bolt

ORDERING INFORMATION

Description	Part Number
Xtra-U Copper Panel without Cable Management (for standard racks)	1-1671548-1
Xtra-U Copper Panel without Cable anagement (for NETpodium rack)	1-1671551-1

Xtra-U Vertical Panel Mounting Brackets

FEATURES

- Bracket set to install a 1U 19" panel vertically outside of the 19" area of a cabinet/rack
- Available for 1U

ORDERING INFORMATION

Description	Part Number
Xtra-U Vertical Panel Mounting Brackets (2 pcs) (for standard racks)	1-1671549-1
Xtra-U Vertical Panel Mounting Brackets (2 pcs) (for NETpodium rack)	1-1671552-1

Xtra-U Aerial Panel Holder Kit for Wire Mesh Cable Trays

FEATURES

- Bracket set to install up to 2U of 19" panel suspending from a cable basket above a cabinet/rack
- Available for 2U

ORDERING INFORMATION

Description	Part Number
Xtra-U Aerial Panel Holder Kit	1-1671603-1

Cable Management
In-Cabinet Accessories

Subfloor Panel Holder Kit

FEATURES

- Fully flexible system for installing 19″ Patch Panels underneath the racks in the false floor area

- Pedestals distance max. 630 mm

- The clamping range varies from 14 mm up to 30 mm

- Pedestal shape can be round or square

ORDERING INFORMATION

Description	Part Number
Subfloor Panel Holder Kit; Height: 1HU	0-1671189-1
Subfloor Panel Holder Kit; Height: 2HU	0-1671189-2
Subfloor Panel Holder Kit; Height: 4HU	0-1671189-4

Mounting Hardware

FEATURES

- Hardware to attach panels and equipment to racks and cabinets

- Packaging quantity: 50

ORDERING INFORMATION

Description	Part Number
Screw set (50 pcs) M6 + cage nuts + plastic washers	1427495-1

Velcro Cable Ties

FEATURES

- Hook and loop ties

- No risk of damaging cables

- Releasable and reusable

- An order quantity of one equals one roll of 10 ties

ORDERING INFORMATION

Description	Part Number
Velcro Tie 1″ x 8″ (10pcs.)	0-1375253-2
Velcro Tie 1″ x 12″ (10pcs.)	0-1375254-2

6. Cable Management

XD Cabinet Rack 42U (metric) 800 Series (XDC Series)

PRODUCT FACTS:

- Height 42U overall W X D X H, 800X649X2054 mm, suitable for cabling and small network

- 1008 ports density or 2016 ports for Mini RJ21,48 port, 1U patch panel

- Perforated front and back door, side panel left and right.

- Back door, half size for easy access and save space.

- 6″ cable duct available in left, right for standalone unit, and 12″ cable duct in center versions for stacked configuration

- Side window accessible easy to managed patch cord from left and right side

- Full XD cable manager included

- Key lock included

- Available in standalone and stacked configuration

- Loading support up to 600 kg

ORDERING INFORMATION

Description	Part Number
XD Cabinet Rack 800X600, 42U Single	272370-1
XD Cabinet Rack 800X600, 42U, 2 Cabinet In One Row	272370-2
XD Cabinet Rack 800X600, 42U, 3 Cabinet In One Row	272370-3
XD Cabinet Rack 800X600, 42U, 4 Cabinet In One Row	272370-4
XD Cabinet Rack 800X600, 42U, 5 Cabinet In One Row	272370-5
XD Cabinet Rack 800X600, 42U, 6 Cabinet In One Row	272370-6
XD Cabinet Rack 800X600, 42U, 7 Cabinet In One Row	272370-7
XD Cabinet Rack 800X600, 42U, 8 Cabinet In One Row	272370-8
XD Cabinet Rack 800X600, 42U, 9 Cabinet In One Row	272370-9
XD Cabinet Rack 800X600, 42U, 10 Cabinet In One Row	1-272370-0
* 45U height is available upon request	

6. Cable Management

TE connectivity

XD Server Rack 42U (metric) 800 Series (XDS Series)

PRODUCT FACTS:

- Height 42U overall W X D X H, 800X1100X2054 mm, suitable for cabling and network and Server Equipment

- Perforated front and back doors, side panel left and right.

- Split back doors for easy access and save space.

- Full XD cable manager included

- Key lock included. Ventilation Fan Set, Power Distribution Unit, and Tray are optional items.

- Flat packed for ease of delivery and storage

- static load up to 1,050kg

ORDERING INFORMATION

Description	Part Number
XD Server Rack 600X1100, 42U	1427560-1
XD Server Rack 800X1100, 42U	1427561-1
XD Server Rack 600X1100, 42U (w/o side panel)	1427560-2
XD Server Rack 800X1100, 42U (w/o side panel)	1427561-2

Standard Rack 19"

PRODUCT FACTS:

- Wide range of Choices from 600 X 800, 800 X 800 X 42U

- Perforated front door

- Two-piece perforated back door enable limit space installation

- 4 plastic wheel to prevent any damage when moving and adjustable stand

- Flat-packed for ease of delivery and storage

ORDERING INFORMATION

Description	Part Number
STD Rack 600 X 800	1427490-1
STD Rack 800 X 800	1427491-1

XD Series Accessory Power Distribution Unit

PRODUCT FACTS:

- Power Distribution Unit (PDU) 220Vac, with protection breaker (Circuit Breaker) 20A Standard, (30A, 40A on request) , 6 or 12 Universal outlet with Grounding

- Universal Power Plug 3 meters

- Other size per request

- X	Color
-1	US Standard
-2	Europe Standard
-3	IEC C13 Standard
-6	China Standard
-7	British Standard

ORDERING INFORMATION

Description	Part Number
AC Power Distribution Unit, 6 Outlet	1427570-X
AC Power Distribution Unit, 12 Outlet	1427571-X
AC Power Distribution Unit, 22 Outlet	1427572-X

XD Series Accessory Ventilating Fan Set

PRODUCT FACTS:

- Fan Set 2X4 in or 3X4 in compatible with XD Series,

- Power Cord 1 Meters

- 220-240 Vac, 50-60 Hz

ORDERING INFORMATION

Description	Part Number
Ventilating Fan Set 2X4" for XDC Rack	1427508-1
Ventilating Fan Set 3X4" for XDC Rack	1427508-2
Ventilating Fan Set 4x4" for XDS Server Rack	1427575-1

Cable Management
XD Cabinet Rack

Fixed Shelf

PRODUCT FACTS:

- These Fixed and Heavy Duty Shelves are ideal for heavy load equipments
- Compatible with 19″ Racks, 1U height, mounting hardware included
- Material: cold rolled steel plate, compliant with RoHS standard
- 80 Kg capacity for Fixed Shelf series, 1.5mm thickness
- Compatible with 600, 800 and 1100 deep cabinets
- Electro Galvanized Material available on request

ORDERING INFORMATION

Description	Part Number
Fixed Shelf, for 1100mm Depth Racks	1427573-1
Fixed Shelf, for 800mm Depth Racks	1427493-1

Sliding Shelf

PRODUCT FACTS:

- Slides out for easy access to equipment
- Compatible with 19″ Racks, 1U height, mounting hardware included
- Material: cold rolled steel plate, 1.5mm compliant with RoHS standard
- 40 Kg capacity load standard
- Compatible with 800 and 1100 deep cabinets

ORDERING INFORMATION

Description	Part Number
Sliding Shelf, for 1100mm Depth Racks	1427574-1
Sliding Shelf, for 800mm Depth Racks	1427494-1

6. Cable Management

MPO Back Cable Manager

PRODUCT FACTS:

- 19", 1 U rear cable management bar
- Used for MPO front panels
- 3 depths available
- Applications include new installation and retrofit
- Rear or front of rack or cabinet mount

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Cable Management Bar 100 mm depth	1711314-1
Cable Management Bar 175 mm depth	1711314-2
Cable Management Bar 275 mm depth	1711314-3

MRJ21 Back Cable Manager

PRODUCT FACTS:

- 19", 1 U rear cable management bar
- Used for MRJ21 or other high density copper or fiber optic panels
- Simple on site assembly
- Applications include new installation and retrofit
- Rear or front of rack or cabinet mount
- 4 depths available
- Tie-down capability on side brackets and back tie-down bar
- Tie-down bar is adjustable for horizontal or vertical cable strain relief

Color: black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Back Cable Manager 6" (150 mm) depth	1933352-1
Back Cable Manager 9" (230 mm) depth	1933352-2
Back Cable Manager 12" (300 mm) depth	1933352-3
Back Cable Manager 16" (400 mm) depth	1933352-4

TE
connectivity

Cable Management
Cable Management Bars

1 U Cable Management Panels 19"

PRODUCT FACTS:

- Panels mount to the front of 19" racks and provide for the orderly dressing and routing of cable assemblies

- Various ring lengths available

- 1 U high

Note: PN 1859160-1 is optimized to be used with panels incl. Quick-Fit modules

ORDERING INFORMATION

Description	Color	Ring length	Part Number
Patch bar with cover	Black (RAL 9005)	75mm	1427632-1
5 rings	Black (RAL 9005)	95 mm	558329-1
4 rings	Light grey (RAL 7035)	60 mm	9-101019-0
4 rings	Light grey (RAL 7035)	80 mm	9-101019-1
4 rings	Black (RAL 9005)	60 mm	9-101019-5
5 rings	Black (RAL 9005)	100 mm	0-1859160-1

110XC CrossConnect Rack Mount Panel 19"

PRODUCT FACTS:

- 19" Rack Mount Panel for XC cable management
- 2 U high

ORDERING INFORMATION

Description	Part Number
XC Cable Management Panel	406641-X

- X	Color
-1	Ivory
-2	Black

110XC CrossConnect Cable Management Troughs

PRODUCT FACTS:

- Provide horizontal management and organization of cables
- Troughs are available with or without legs

ORDERING INFORMATION

Description	Part Number
With legs	569389-X
Without legs	569597-X

- X	Color
-1	Ivory
-2	Black

110XC CrossConnect Vertical Cable Management Frame

PRODUCT FACTS:

- Provides high capacity storage of patch cables and jumper wire
- Quick and easy installation
- Available in 300 and 900 pair sizes
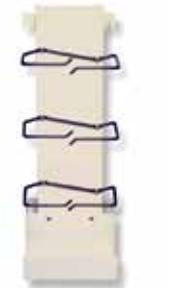
ORDERING INFORMATION

Description	Part Number
300 pairs	0-569851-X
900 pairs	0-569852-X

- X	Color
-1	Ivory
-2	Black

Cable Management Rings

PRODUCT FACTS:

- Provide vertical management and organization of cables

- Available in two widths

- Suitable for mounting directly to a plywood backboard

ORDERING INFORMATION

Description	Part Number
145 mm width	569431-1
216 mm width	569599-1

6. Cable Management

7. Tools & Labeling

7. Tools & Labeling

Tools & Labeling
Twisted Pair Tools

110C Impact Tools

FEATURES:

- Industry standard termination tools for 110Connect, AMP CO Plus and other LSA+™ compatible Jacks

- Available as impact tool (standard or premium version) or as non-impact tool

- Tools are delivered with blade

ORDERING INFORMATION

Description	Part Number
Premium Impact Tool with Extended-Life Blade	1375308-1
Standard Impact Tool with Standard Blade	1583608-1
Non-Impact Tool with Standard Blade	1583236-1
Replacement Blade (Extended-Life)	1375309-1
Replacement Blade (Standard)	1375310-1
UCS Impact Tool	449526-000

Pistol-Grip Field Termination Tool for AMP CO Plus

FEATURES:

- Pistol Grip Tool for easy termination of shielded Edge Connector Mark II

- Ensures repeatable high termination quality

- Considerably reduces termination time by using TE's Automatic Wire Cutting (AWC)

ORDERING INFORMATION

Description	Part Number
AMP CO Plus Pistol-Grip Tool with lacing fixture	1711500-1

Handheld Field Termination Tool for SL Jacks

FEATURES:

- Terminates Cat. 3, 5E and 6 SL jacks (110C, AMP-TWIST 6S and AMP-TWIST 7ᴬS)

- Strips cable, marks foil, terminates and cuts 8 conductors at once

- Lacing fixture for 110C assures simple and efficient use
  (not used for AMP-TWIST 6S and AMP-TWIST 19" 1U unloaded modular patch panel with support for 4 UCP modules

- Angled and flush style panels available
- Modular, rear cable management for both horizontal Copper and Fiber cables
- Accepts Pre-terminated Cu or FO cassettes or Field-terminated Copper modules
- Including grounding bolt

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Handheld tool kit (tool and pouch) for 110C jacks (incl. fixture)	1725150-1
Handheld tool kit for AMP-TWIST 6S and 7ᴬS jacks (without fixture)	1725150-3
Separate handheld tool (spare part)	1725080-1
110C lacing fixture (spare part)	1673956-1

AMP CO Plus Accessory Tools

FEATURES:

Unlocks the rear cover of AMP CO Plus housings
1 : 1 scale cable preparation template for precise high quality termination of the shielded edge connector Mark II
Palm tool for precise and safe termination
of the shielded edge connector Mark II

ORDERING INFORMATION

Description	Part Number
Unlocking tool	726948-1
Preparation Template English/German	336547-1
Preparation Template French/German	336547-2
Palmtool	569949-1

7. Tools & Labeling

7. Tools & Labeling

Separate Tools

FEATURES:

- Easy, safe and fast cable preparation
- Diagonal Cutter for precise cutting of wire

ORDERING INFORMATION

Description	Part Number
Jacknack	2119000-1
Diagonal Cutter	1116571-1

Standard Tool Set for Modular Plugs

FEATURES:

- Complete tool set for the termination of unshielded and shielded modular plugs
- Standard version contains 2 die sets for 4, 6 and 8 position standard modular plugs
- Professional version contains 4 die sets for 4, 6 and 8 position standard and 4 position hand set modular plugs

ORDERING INFORMATION

Description	Part Number
Standard tool set	1-231666-0
Professional tool set	1-231666-3

PRO-CRIMPER III Tool Set for EMT Plugs

FEATURES:

- Installer's complete tool set for field termination of high performance EMT modular plugs
- contains all tools needed: hand tool, die set, diagonal cutter and Cyclops cable stripper
- 100 EMT plugs plus 20 anti-tangle boots in 6 different colors

ORDERING INFORMATION

Description	Part Number
EMT PRO-CRIMPER III Tool Set	1711303-1

PRO-CRIMPER III Hand Tool and Die Sets for Twisted Pair Applications

FEATURES:

- External Strain Relief Clamp Die Set and Tool are for use with the External Strain Relief Clamp for 8-position Cat. 3, 5, and 5e Modular Plugs

PRO-CRIMPER III
(shown with a die set)

ORDERING INFORMATION

Description		Part Number
PRO-CRIMPER III Hand Tool		354940-1
External Strain Relief Clamp	Hand Tool and Die Set	224928-1
	Die Set Only	224928-2

Cat. 6 Modular Plug Hand Tool and Die Set

FEATURES:

- Cat. 6 Modular Plug Die Set and Tool crimps both the Strain Relief and the Modular Plug contacts at the same time

PRO-CRIMPER III
(shown with a die set)

ORDERING INFORMATION

Description			Part Number
Cat. 6 Modular Plug	5 – 6 mm	Hand Tool and Die Set	790163-1
		Die Set Only	790163-2
	6 – 7 mm	Hand Tool and Die Set	790163-5
		Die Set Only	790163-6

7. Tools & Labeling

Pro-Installer's Modular Plug Hand Tool

FEATURES:

- Ratchet control provides complete termination cycle

- Interchangeable die sets accommodate all plug sizes

- Clamshell packaging is made of clear plastic and is for point-of-purchase display

ORDERING INFORMATION

Description	Color Dot		Packaging	Part Number
4-Position Handset	Green	Hand Tool and Die Set	Standard	2-231652-3
		Die Set Only	Clamshell	853400-3
4- and 6-Position Line	Blue	Hand Tool and Die Set	Clamshell	2-231652-4
			Standard	2-231652-8
		Die Set Only	Clamshell	853400-8
6-Position Offset Latch	Orange	Hand Tool and Die Set	Standard	2-231652-6
		Die Set Only	Clamshell	853400-6
6-Position Long Body	Violet	Hand Tool and Die Set	Standard	2-231652-7
		Die Set Only	Clamshell	853400-7
8-Position Line	Black	Hand Tool and Die Set	Standard	2-231652-1
			Clamshell	2-231652-2
		Die Set Only	Clamshell	853400-1
8-Position High Performance	White	Hand Tool and Die Set	Standard	3-231652-0
			Clamshell	3-231652-1
		Die Set Only	Clamshell	1-853400-0

7. Tools & Labeling

Universal No Epoxy Termination Tool Kit

FEATURES:

- Includes all tools necessary for installing
    - MT-RJ jacks and MT-RJ Secure jacks
    - LightCrimp Plus ST-Style, SC and LC connectors
    - SC, LC and LightCrimp ST-Style and SC connectors

- Termination tool kit includes:
    - PRO-CRIMPER III Hand Tool and appropriate die set
    - Stripper tools
    - Kevlar scissor
    - Cable holder
    - Cleave tool
    - LightCrimp Plus Termination Video CD-Rom

ORDERING INFORMATION

Description	Part Number
Universal no epoxy termination tool kit	1278949-3

MT-RJ Jack Termination Tool Kit

- Tool kit includes:

    - Soft case

    - Cleave tool

    - Miller strip tool

    - Cable stripper

    - Micro stripper
    - Kevlar scissors

    - MT-RJ strip length template

    - Actuator key

    - Alcohol wipes
    - MT-RJ Termination Video CD-Rom

ORDERING INFORMATION

Description	Part Number
MT-RJ Tool Kit	1278346-2

7. Tools & Labeling

LightCrimp Plus Termination Tool Kits

Termination tool kit includes:

– PRO-CRIMPER III Hand Tool and appropriate die set

– Stripper tools

– Kevlar scissor

– Cable holder

– Cleave tool

– LightCrimp Plus Termination Video CD-Rom

ORDERING INFORMATION

Description	Part Number
LightCrimp Plus ST-Style, SC, LC Connectors and MT-RJ Jack Termination Tool Kit	1278118-5
LightCrimp Plus ST-Style, SC, LC Connectors and MT-RJ Jack Termination Tool Kit without microscope	1278118-4
LightCrimp Plus SC Connector Termination Tool Kit	1278022-2
LightCrimp Plus ST-Style Connector Termination Tool Kit	492697-2
LightCrimp Plus LC Connector Termination Tool Kit	1754845-2
LightCrimp Plus LC Adaptive Kit	1754846-1
LightCrimp Plus LC Upgrade Kit	1754847-1

LightCrimp Termination Tool Kit

FEATURES:

- Tool kits include:

    – PRO-CRIMPER III Hand Tool and appropriate die set

    – Stripper tools

    – Kevlar scissor

    – Template strip

    – Cleave tool

    – Polishing bushings

    – Polishing films

    – Polishing plate

    – Microscope as listed*

*Microscope available separately on page "Inspection Microscope" on page 187

ORDERING INFORMATION

Description	Type	Microscope	Part Number
LightCrimp SC	Termination Kit	No Microscope	503706-1
LightCrimp ST-Style	Termination Kit	No Microscope	503330-1
LightCrimp SC and ST-Style	Termination Kit	No Microscope	503957-1
LightCrimp SC and ST-Style	Termination Kit	Premium Microscope	503957-2
LightCrimp SC and ST-Style	Mini Tool Kit	No Microscope	492543-1

TE connectivity

LightCrimp Universal Cleave Tool

FEATURES:

- Used in both SC and ST-Style LightCrimp Connector terminations

- Included in all LightCrimp tool kits

ORDERING INFORMATION

Description	Part Number
LightCrimp Universal Cleave Tool	503705-1

LightCrimp Plus Cable Holder

FEATURES:

- Stripping template and cable holder for LightCrimp Plus terminations

- Included in the LightCrimp Plus tool kit

ORDERING INFORMATION

Description	Part Number
SC	1278023-1
ST-Style	492703-1
LC	1754138-1
LC/SC	2064540-1

Fiber Optic Cleave Tool for Field Installations

FEATURES:

- Applicable to LightCrimp Plus Connector, MT-RJ and Corelink terminations

- Lifespan of blade is approximately 10000 cycles

- Cleaving length: 4, 6, 8, 10, 16 mm

- For 900 μm and 250 μm fiber

ORDERING INFORMATION

Description	Part Number
Fiber Optic Cleave Tool	1871696-1

7. Tools & Labeling

AMP CORELINK Splice Workstation

FEATURES:

- For convenient installation of AMP CORELINK splices

ORDERING INFORMATION

Description	Part Number
AMP CORELINK Splice Workstation	503605-1

PRO-CRIMPER III Hand Tool and Fiber Optic Die Sets

FEATURES:

- Hand tool and die sets for fiber optic connectors
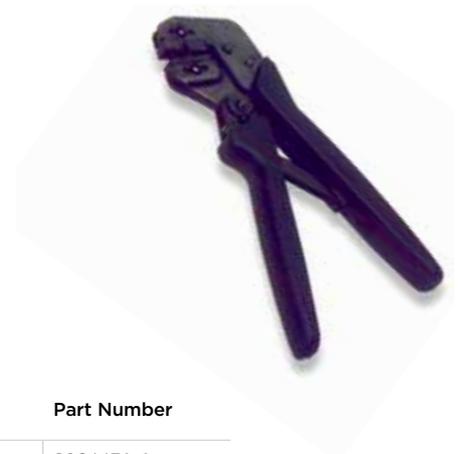
ORDERING INFORMATION

Description	Figure	Part Number
PRO-CRIMPER III Hand Tool only		2064431-1

Fiber Optic Die Sets

Description	Cable Jacket Diameter (mm)	Die Set	Hand Tool and Die Set
ST-Style	3.0	0-0058424-1	58433-4
SC	3.0	0-0503910-1	503911-1
SC	2.0 & 2.4 / 2.5 & 3.0	0-0492025-1	492026-1
LC Epoxy	1.6–2.0 & 2.4 & 3.0	0-1588175-1	1588176-1
LightCrimp Plus and LightCrimp ST-Style	2.0, 2.5 & 3.0	0-0492622-1	492623-1
LightCrimp Plus and LightCrimp SC	2.5 & 3.0	0-0492783-1	492782-1
LightCrimp Plus LC	0.9	0-1754136-1	1754137-1
Universal dieset LC/SC	0.9, 2.0 & 3.0	0-1985766-1	2064603-1

TE
connectivity

Separate Tools

FEATURES:

- Stripping tools, Micro-Stripper and Kevlar scissor for easy and save fiber preparation

ORDERING INFORMATION

Description	Part Number
Micro-Stripper for 900µm buffer (mandatory for MT-RJ jack termination)	492109-2
Micro-Strip Cable Jacket Splitter	2065543-1
Stripping tool for cable jackets	1278531-1
Miller Stripping tool for buffer, fiber coating and 2–3 mm jackets	1754708-1
Kevlar scissor	501014-1
RECORDsplice stripping length indicator	8-1899183-4
Jacket stripper	0501198-1

Pro-Installer Epoxy/Polish Type Connector Termination Tool Kit

FEATURES:

- Includes all necessary tools to install these connectors:

- ST-Style, SC, FSD, FC, D4, FSMA

- Epoxy sold separately (see page "EPO-TEK Epoxy" on page 190)

- Tool kits include (except were specified otherwise):

    – PRO-CRIMPER III Hand Tool and crimping dies

    – Polishing bushings

    – Polishing film

    – Cable and fiber strippers

    – Scissors

    – Scribe tool

    – Microscope with tripod and power source

    – Epoxy curing oven

ORDERING INFORMATION

Description	Part Number
Tool Kit with microscope and curing oven (230 V)	501258-8
Tool Kit without curing oven and microscope	501258-9
LC Upgrade Kit	1754462-1

7. Tools & Labeling

Epoxy/Polish Type Connector Termination Tool Kit

FEATURES:

- Tool kits include:

  – Carrying case

  – PRO-CRIMPER III Hand Tool and crimping dies

  – Polishing bushings

  – Polishing film

  – Cable and fiber strippers

  – Scissors

  – Scribe tool

- Kits contain polishing materials for approximately 60 connectors (consumables can be purchased separately on page 188)

- SC tool kit can also be used to install FC Connectors

ORDERING INFORMATION

Description	Part Number
SC/FC	503746-7
ST-Style	503746-1
LC Upgrade Kit	1754603-1

TE connectivity

Inspection Microscope

FEATURES:

- Optimal visual examination of terminated ends
  – unsurpassed 200x magnification

- Dual illumination
  – Coaxial for inspecting polish quality
  – Oblique for general conditions

- Field and laboratory examination for multimode and singlemode fibers

- Portable

- Integral infrared filters for safety
  – Do NOT use any microscope to view active fiber signals

- Long-life LED (appr. 100.000 hours of operation)

EACH KIT CONTAINS:

- Microscope with an impact resistant ergonomic rubber shell and high quality glass optics

- Padded carrying case with an integrated belt loop and internal adapter storage pocket

- Neck lanyard with safety breakaway feature

- Universal 2.5 mm ferrule adapter (for SC, ST and FC)

ORDERING INFORMATION

Description	Part Number
Inspection Microscope Kit	1754767-1
1.25 mm universal (LC and MU)	1754765-1
2.50 mm universal (SC, ST-Style and FC)	1754766-1
MT-RJ	1754768-1
SC/APC	1828833-1
MPO Multimode	1828836-1
MPO Singlemode	1828837-1

Sapphire Tipped Scribe Tool and Accessories

FEATURES:

- Long-lasting sapphire blade

- Pen-type casing

- For epoxy style connectors only

ORDERING INFORMATION

Description	Part Number
Sapphire tipped Scribe Tool	504064-1
Replacement Blades	504290-1

TE connectivity

Polishing Bushings, Curing Sleeves and Strip Card Kit

FEATURES:

- Polishing bushings for all polishing processes
- Curing sleeves for safe oven application

Polishing Bushing 2.5 mm   **Polishing Bushing SC**   **SC Curing Sleeve**   **ST-Style Curing Sleeve, 2.5 mm bayonette**

ORDERING INFORMATION

Description	Used With	Notes	Part Number
Polishing bushing	Ceramic and stainless steel ST-Style connectors	Metal	503337-1
Polishing bushing	Ceramic, stainless steel and Polymer composite ST-Style connectors	Black Polymer	503304-1
Polishing bushing	SC Connectors	Black Polymer	502631-1
Polishing bushing	SC Connectors	Metal	503787-1
Curing sleeve	Ceramic, stainless steel and Polymer composite ST-Style connectors	12 pcs	502259-1
Curing sleeve	SC Connectors	1 pc	502656-1
Strip Card Kit	ST-Style and SC Connectors	–	501818-1
Polishing bushing	Ceramic LC Connectors	–	1754074-1
Strip Card Kit	LC Connectors	–	1588756-1
Curing sleeve	LC 900 µm	12 pcs	1457630-1
Curing sleeve	LC jacketed cable	12 pcs	1457630-2

Hand Polishing Accessories

FEATURES:

- Acrylic polishing plate
- Self-adhesive polishing pad

ORDERING INFORMATION

Description	Part Number
Polishing plate	501197-1
Polishing pad for polymer ferrules 21 cm diameter, white, self-adhesive	501523-1
Polishing pad for ceramic ferrules 21 cm diameter, white, self-adhesive	501858-1

7. Tools & Labeling

Epoxy Curing Oven

FEATURES:

- Reduces time required to cure epoxy in fiber optic connectors

- Accepts all AMP NETCONNECT Fiber Optic Connectors that require epoxy

- Comes equipped to cure up to four duplex connectors and 12 simplex connectors at once

- Optional blocks to allow up to 8 duplex and 24 simplex connectors available

- Variable temperature control (60°C to 125°C)

- Includes thermometer and cable support bracket

ORDERING INFORMATION

Description	Part Number
Curing oven (220 Volt) incl. adapter block for 16 connectors	502134-2
Adapter block for 24 single connectors	502129-1
Adapter block for 8 duplex connectors	502222-1
Adapter block for 1.6, 2.0 and 2.4 mm SC and LC connectors	1457628-1

Adhesive Applicator Syringe and Polishing Films

FEATURES:

- 3 ccl capacity

- Ideal for epoxy

ORDERING INFORMATION

Description	Part Number
Adhesive applicator syringe	501473-3
Mixing cup	502282-2

ORDERING INFORMATION

Description	Connector Type					Grit Grade	Part Number
	Epoxy-Polish SC	Epoxy-Polish LC	Epoxy-Polish Singlemode ST-Style	Epoxy-Polish Multimode ST-Style	LightCrimp SC and ST-Style		
Hand Polishing Film*	–	–	–	–	•	15 µm	0-228433-9
Hand Polishing Film*	•	•	•	•	•	5 µm	0-228433-8
Hand Polishing Film*	–	–	–	•	•	1 µm	0-228433-7
Hand Polishing Film*	•	•	•	•	•	0.3 µm	0-228433-5
Hand Polishing Film**	•	–	•	–	–	–	0-502748-2
Hand Polishing Film***	–	•	–	–	–	9 µm	0-1374484-1

* Packet of 10   ** Packet of 5   *** Packet of 15

7. Tools & Labeling

EPO-TEK Epoxy

FEATURES:

- Pre-measured bi-packs for consistent results
- Ideal for bonding fibers and optical components
- Long pot life
- Heat cured and room temperature epoxy
- High service temperature
- Supplied in 4-gram packs

ORDERING INFORMATION

Description	Cure time/Temp.	Pot life	Color after Curing	Viscosity (cps)	Max. Temp.	Glass transition-temp.	Part Number
EPO-TEK 353ND	10 min @ 115°C	4 hr	Red	2000	200°C	124°C	0-504035-1

TRA-CON® and Hysol® Epoxy

FEATURES:

- General purpose epoxy for SC and ST-Style epoxy polish connectors
- Long pot life
- Heat cured and room temperature epoxy
- High service temperature

ORDERING INFORMATION

Application	Connectors	Cure time and temperature	Pot life	Color	Packaging	Connectors per package	Part Number
For manufacturing and field use	FDDI, ESCON, ST-Style, FSMA	24 hr @ 25°C 2 hr @ 65°C	30 mins 30 mins	blue	25 x 2 g	250	1918652-1
For manufacturing and field use	all	30 mins @ 100°C	30 mins	blue	1 x 70.8 g + 1 x 22.6 g	400	502418-1

Powermeter Launch Lead Kits for Optical Testing and Certification

Today testing of fiber optic links is more sensitive than ever. AMP NETCONNECT test kits guarantee precise and replicable fiber testing. All kits contain connectors with controlled end faces and support testing with 3 jumper test method in accordance to ISO/IEC 14763-3.

EACH KIT CONTAINS:

– Test leads for simplex and duplex IL test

– Test leads for CPR tests

– Fiber coupling bushes

– Two mandrels (MM only)

– Cleaning aides

– Instruction manual

– Data sheet of end face geometry

ORDERING INFORMATION

Description	Part Number
50 µm, MM Launch Lead	Y-6695241-X
62.5 µm, MM Launch Lead	Y-6695243-X
9 µm, SM Launch Lead	Y-6695245-X

Explanation   Connector 1 – to test equipment
Connector 2 – under test

Y - X	Connector Type	Y - X	Connector Type	Y - X	Connector Type	Y - X	Connector Type
0- -1	SC/PC to SC/PC	0- -6	ST/PC to SC/PC	1- -1	LC/PC to SC/PC	1- -6	FC/PC to SC/PC
0- -2	SC/PC to ST/PC	0- -7	ST/PC to ST/PC	1- -2	LC/PC to ST/PC	1- -7	FC/PC to ST/PC
0- -3	SC/PC to LC/PC	0- -8	ST/PC to LC/PC	1- -3	LC/PC to LC/PC	1- -8	FC/PC to LC/PC
0- -4	SC/PC to FC/PC	0- -9	ST/PC to FC/PC	1- -4	LC/PC to FC/PC	1- -9	FC/PC to FC/PC
0- -5	SC/PC to MT-RJ	1- -0	ST/PC to MT-RJ	1- -5	LC/PC to MT-RJ	2- -0	FC/PC to MT-RJ

Single Calibration Cords (for individual purchase)

ORDERING INFORMATION

Description	Part Number
Calibration cord LC-LC Simplex OM3	1568959-1
Calibration cord LC-SC Simplex OM3	1568958-1

7. Tools & Labeling

OTDR Launch Lead Kits for Optical Testing and Certification

EACH KIT CONTAINS:

– Launch and tail lead

– Length 400m (MM) and 500m (SM)

– Data sheet of end face geometry

– Coupling bushings

– Cleaning aides

– Instruction manual

Y - X	Connector Type
0- -1	SC/PC to SC/PC
0- -2	SC/PC to ST/PC
0- -3	SC/PC to LC/PC
0- -4	SC/PC to FC/PC
0- -5	SC/PC to MT-RJ

Y - X	Connector Type
0- -6	ST/PC to SC/PC
0- -7	ST/PC to ST/PC
0- -8	ST/PC to LC/PC
0- -9	ST/PC to FC/PC
1- -0	ST/PC to MT-RJ

Y - X	Connector Type
1- -1	LC/PC to SC/PC
1- -2	LC/PC to ST/PC
1- -3	LC/PC to LC/PC
1- -4	LC/PC to FC/PC
1- -5	LC/PC to MT-RJ

Y - X	Connector Type
1- -6	FC/PC to SC/PC
1- -7	FC/PC to ST/PC
1- -8	FC/PC to LC/PC
1- -9	FC/PC to FC/PC
2- -0	FC/PC to MT-RJ

ORDERING INFORMATION

Description	Part Number
50 µm, MM Launch Lead	Y-6695240-X
62,5 µm, MM Launch Lead	Y-6695242-X
9 µm, SM Launch Lead	Y-6695244-X

Explanation: Connector 1 – to test equipment
Connector 2 – under test

Consumables for Power Meter and OTDR Launch Lead Kits

ORDERING INFORMATION

Description	Part Number
Cleaning lens book	434376-1
Compressed air bottle	1206860-1
Cleaning stick 2,50 mm	233069-1
Cleaning stick 1,25 mm	233069-2
Cleaning stick MT-RJ	1391089-1

TE
connectivity

Visual Fault Locator

FEATURES:

- 650μm (visible) Class 2 1.0 mW max. Diode Laser

- Continuous and flashing (2–3 Hz pulsed) modes

- Uses 1 "AA" style battery for >30 hours of continuous use

- Standard 2.5 mm adapter for SC, ST, and FC connectors

- Optional 1.25 mm adapter for LC and MU connectors

ORDERING INFORMATION

Description	Part Number
Hand Held Visual Fault Locator incl. 2.5 mm adaptor	1828352-1
Hand Held Visual Fault Locator incl 2.5 + 1.25 mm adaptor	1828352-2
Adaptor for Hand Held VFL 1.25 mm	1828353-1

MPO Cassette Cleaner

ORDERING INFORMATION

Description	Packaging	Part Number
1 Slot	1	1918803-1
2 Slot	1	1918805-1
MT-RJ with pins	1	1918804-1
MTP/MPO with pins	1	1918802-1
Cleaner Refill	6 rolls	1918806-1

Fiber Optic Reel Cleaner

ORDERING INFORMATION

Description	Packaging	Part Number
MTP/MPO Cleaner MTP I.B.C.	1	1918809-1

Fiber Optic Card Cleaner

ORDERING INFORMATION

Description	Packaging	Part Number
Card Cleaner	1	1918810-1
Card Cleaner Refill	100 sheets	1918811-1

7. Tools & Labeling

Cleaning Sticks for Single Fiber Couplers

ORDERING INFORMATION

Description	Packaging	Part Number
2.5 mm stick cleaner	25 x 10	1918807-1
1.25 mm stick cleaner	25 x 10	1918808-1

Bulkhead Cleaner

ORDERING INFORMATION

Description	Part Number
SC	2064499-1
LC	2064500-1
MT-RJ	2064501-1

Icons

FEATURES:

- Icons for port identification applicable to various faceplates for 110Connect, AMP CO and AMP-TWIST SL jacks

- Different colors and different symbols available

ORDERING INFORMATION

Description	Part Number
4x data, 4x neutral, 2x phone, 3x Cat.5 , 1x fax, 1x modem, 1x printer	558176-X
4x neutral, 2x Cat. 5E, 2x Cat. 6, 2 x Cat. 6A and 1x V1, V2, D1, D2, D3, D4	1375092-X
16x data	558198-X
16x phone	558199-X
16x neutral, available in -1, -6, -8 and 1- -0	558821-X

Y - X	Color
-1	Almond
-2	Red
-3	Green
-4	Blue
-5	Yellow
-6	Black
-7	Orange
-8	White
-9	Violet
1- -0	Grey

Labels for AMP CO Dual Inserts

FEATURES:

- Labels for additional port marking in different colors

- For dual AMP CO inserts

- Available in six colors

ORDERING INFORMATION

Description	Part Number
90 labels per sheet (45 left and 45 right)	2-101021-X

- X	Color
-0	Grey
-1	Red
-2	Green
-3	Blue
-4	Yellow
-5	Black

Printer Labels

FEATURES:

- Self-adhesive A4 sheets with printer labels for port labeling

- Uses standard Excel sheet

ORDERING INFORMATION

Description	Packaging	Part Number
Labels (6 x 32 mm, 170 pcs per sheet)	10 sheets	969704-1

7. Tools & Labeling

Labeling-Software

FEATURES:

- Flexible build option to produce more complex alphanumeric identifiers

- Create identifiers consisting of up to 12 independent segments

- Can cope easily with the new TIA/EIA-606-A standard identification sequences

- Insert symbols (all standard Windows symbols can be used)

- Save and edit builds

- Fine tune adjustment

- Split your label format as required

- Job notepad facility for builds saved to file

- Adjust font style and size

- Context-sensitive help
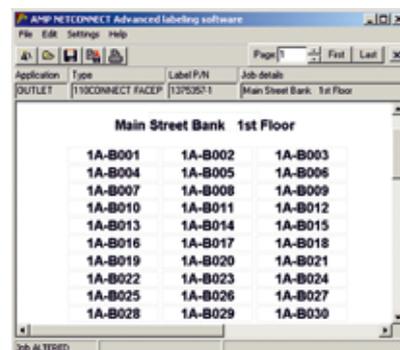
Labels for Work Area/Standard Labels for Outlet

FEATURES:

- Labels are designed to fit AMP NETCONNECT and similar faceplates and surface outlets

- Card stock labels are perforated and compatible with inkjet and laser printers

- Self-adhesive polyester labels are pre-cut and compatible with laser printers

- Labels are supplied on 8.50 x 110 (21.6 x 27.9 cm) sheets

- For use with 110Connect style and AMP CO outlets
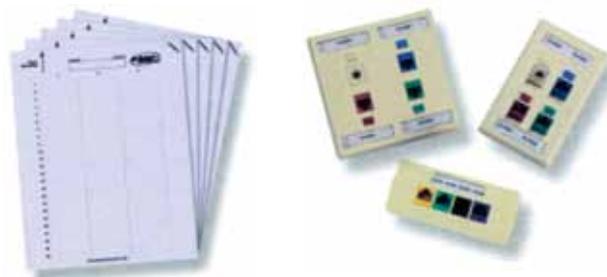
ORDERING INFORMATION

Description	Label Size (w x h)	Labels per Sheet	Standard Package	Part Number
Card stock	1.98" x 0.373" (5.0 x 1.0 cm)	72	5 sheets (360 labels)	1375356-1
Self-adhesive Polyester	1.98" x 0.373" (5.0 x 1.0 cm)	72	5 sheets (360 labels)	1375357-1

Label Covers for Outlets

FEATURES:

- Kit includes fifty die-cut labels and clear plastic covers
- For use in US american outlets only (see pages 148/152)
- Included with compatible faceplate kits

ORDERING INFORMATION

Description	Part Number
Label Covers for Outlets	1375345-1

Universal Labels

FEATURES:

- AMP NETCONNECT Labeling Software allows customization of the universal labels listed for use with multiple products
- The Software provides cut lines to modify the labels for each particular application
- Number of labels per package will vary according to individual application
  - for Modular Jack Box, 1-Port, 5 Sheets, (1080 labels)
  - for Modular Jack Box, 2-Port, 5 Sheets (600 labels)
  - for SL Series Office Box, 2-Port, 5 Sheets (600 labels)
  - for SL Series Office Box, 4-Port, 5 Sheets (360 labels)
  - for labels for 110Connect Office Box refer to Patch Panel Labels next page

ORDERING INFORMATION

Description	Part Number
Self-adhesive labels	0-1375358-1

7. Tools & Labeling

Patch Panel Labels

FEATURES:

- Labels are designed to fit AMP NETCONNECT and similar patch panels

- Card stock labels are perforated and compatible with inkjet and laser printers

- Self-adhesive polyester labels are pre-cut and compatible with laser printers

- Labels are supplied on 8.5″ x 11″ (21.6 x 27.9 cm) sheets

- Special 0.25" (6.4 mm) high label is provided for use when icons are also desired

- For use with 110Connect and SL style panels

ORDERING INFORMATION

Description	Label Size (w x h)	Labels per Sheet	Standard Package	Part Number
Card Stock	3.10″ x 0.50″ (7.9 x 1.3 cm)	36	5 sheets (180 labels)	1375351-1
Self-adhesive Polyester	3.10″ x 0.50″ (7.9 x 1.3 cm)	36	5 sheets (180 labels)	1375352-1
Self-adhesive Polyester	3.30″ x 0.25″ (8.4 x 0.6 cm)	72	5 sheets (360 labels)	1375353-1

Label Covers for Patch Panels

FEATURES:

- Includes twenty-five sheets, four clear plastic label covers per sheet

- For use in 110Connect and SL series patch panels

ORDERING INFORMATION

Description	Part Number
Label covers for patch panel	1116044-2

110XC CrossConnect Labels

FEATURES:

- Labels are designed to fit the AMP NETCONNECT 110XC CrossConnect System and other similar products
- Card stock labels: designed to fit into standard clear designation strips, available in TIA/EIA-606-A compliant colors, perforated, and compatible with inkjet and laser printers
- White self-adhesive polyester labels: designed for easy application to the front of the clear designation strips, pre-cut and compatible with laser printers
- Labels are supplied on 8.5″ x 11″ (21.6 x 27.9 cm) sheets

Y - X	Color
-1	White
-2	Blue
-3	Green
-4	Purple
-5	Red
-6	Brown
-7	Yellow
-8	Orange
-9	Grey

ORDERING INFORMATION

Description	Label Size (w x h)	Labels per Sheet	Standard Package	Part Number
Card Stock	7.90″ x 0.48″ (20 x 1.2 cm)	18	5 sheets (90 labels)	1375354-X
Self-adhesive Polyester	7.90″ x 0.48″ (20 x 1.2 cm)	18	5 sheets (90 labels)	1375355-1

Label Cover for 110XC Wiring Blocks

FEATURES:

- Used with 110XC CrossConnect system

ORDERING INFORMATION

Description	Part Number
Clear Plastic Label Holder	558417-1

7. Tools & Labeling

Labels for Cable and Cable-Assemblies

FEATURES:

- Labels are designed for use on cable and cable assemblies

- Labels are pre-cut and compatible with laser printers

ORDERING INFORMATION

Description	Label Size (w x h)	Labels per Sheet	Standard Package	Part Number
4-Pair Cable	0.984″ x 1.496″ (2.5 x 3.8 cm)	48	5 sheets (240 labels)	1479002-1
Self-adhesive Polyester 25-Pair Cable	0.984″ x 2.480″ (2.5 x 6.3 cm)	24	5 sheets (120 labels)	1479003-1

8. Video Distribution System

Video Distribution System

True High Definition RF and IP Video over Cat 6 or 7 twisted-pair cabling

TE Connectivity's Video Distribution System (VDS) enables the delivery of video signals such as: cable television, satellite, in-house video, digital signage, electronic bulletin board or any other service normally delivered over coax systems but over twisted-pair cabling. The VDS eliminates the need for a separate coax infrastructure or the need for RF technician to install it.

VDS is a TIA-568/ISO 11801 compliant solution for delivering broadband RF signals over an existing structured cabling infrastructure.

Supports Up to 862 MHz RF Signals
Support full-spectrum video (862 MHz) for up to 90 meters or 550 MHz for up to 100 meters.

Intelligent Self Adjusting Balun
Provides amplification and equalization with Auto Gain Control (AGC).

Plug & Play - No Setup Required
Output and input levels are adjusted to provide perfect HD video at the TV set.

FEATURES

- Supports RF video and IP Video over a single Cat 6 or 7 twisted-pair cable.

- Capability to support in excess of 65,000 video drops.

- Truly Plug-n-Play with Auto Gain Control (AGC)

- System automatically adjusts the head-end signal for proper system operation.

- Eliminates the need for manual tuning, solving coax's equalizing and balancing problems electronically.

- Ease of system design/maintenance

- Bi-Directional Signal - compatible with Interactive Control requirements

- Future-proofs your network for the movement to IPTV

8. Video Distribution System

Video Distribution System

Master RF Video Interface

FEATURES

- No set-up required – plug-and-play

- Automatic RF gain and slope adjustment

- Eight coax output ports to drive VDS Hubs

- Auxiliary ports for use with in-house RF video

- LED indicator lights

Description	Part Number
Master RF Video Interface (N Variant)	2-2111501-0
Master RF Video Interface (P Variant)	1-2111501-0

Video Distribution Hub

FEATURES

- No set-up – automatic gain and slope control.

- Supports full-spectrum video as well as 10/100Base-T

- Available in 12 and 24-port versions

- Four (4) coax output ports to drive other VDS Hubs

- LED indicator lights

Description	Part Number
Video Distribution Hub (N) 24-port	2-2111510-0
Video Distribution Hub (P) 24-port	1-2111510-0
Video Distribution Hub (N) 12-port	2-2111505-0
Video Distribution Hub (P) 12-port	1-2111505-0

Intelligent, Self-Adjusting Balun

FEATURES

- Plug-and-play utilizing AGC (Automatic Gain Control)

- Provides two output ports – F connector for RF and RJ-45 for 10/100Base-T

- No external power supply – powered via twisted pair cable

- Small size (2.5″ x 2.5″ x 1″) (59 mm x 57 mm x 24 mm)

Description	Part Number
Intelligent, Self-Adjusting Balun (N)	2-2111515-0
Intelligent, Self-Adjusting Balun (P)	1-2111515-0

8. Video Distribution System

www.te.com/enterprise-asia

11/12   311778HK

TE
connectivity

Index

Index

Index
Part Number Index

Index

Index
Part Number Index

Index

TE connectivity

Index
Part Number Index

Index

Index

Index
Part Number Index

Index
Part Number Index

Index

Index
Part Number Index

XG$_A$ 10 Gb/s Approved

High-speed 10 Gigabit Ethernet over Twisted Pair and Fiber Optic Cabling

The AMP NETCONNECT XG Systems, comprising Cat. 6 Copper and OM3 Fiber products have become firmly established industry-leading portfolios with excellent 10 Gb/s performance.

As transmission and connectivity technologies have progressed, TE has developed new products which exploit these technological advantages: our AMP NETCONNECT XG$_A$ Systems include our Cat. 6$_A$ Copper and OM4 Fiber portfolios to become the next generation, end-to-end 10 Gb/s infrastructure solutions. They are fully compliant with the latest ISO/IEC 11801 Amendment 2 specifications.

The **XG$_A$ 10 Gb/s approved** seal is an indicator for all products of the XG$_A$ family.

ISO Cat. 6$_A$

A new Category 6$_A$ specification has arrived

All products in this catalog that feature the **ISO Cat. 6$_A$** seal are compliant with the global cabling standard ISO/IEC 11801 Amendment 2.

This amendment defines new specifications for Cat. 6$_A$ components and Class E$_A$ permanent links. These global Cat. 6$_A$ / Class E$_A$ specifications require a new generation of connecting hardware offering far superior performance compared to the existing products which are based on the American TIA standard.

Benefits of this higher standard include more headroom, "mix & match" capability, enabling short links, and removing the requirement for ANEXT testing.

Pyramid Tested
The Conformity and Quality Trademark for Real Cat. 6 Component Performance

All products in this catalog that feature the PYRAMID TESTED logo totally comply with the de-embedded testing requirements of the standards TIA / EIA 568 B.2-1 (UTP & STP), IEC 60603-7-4 (UTP) and IEC 60603-7-5 (STP). Accordingly these products fulfill the performance requirements of Cat. 6 for components which guarantees interoperability and backward-compatibility between products.

During development and production these products are tested with a worldwide standardized test setup, heart piece of which is a pyramidal test head. This exactly defined shape guarantees repeatability of the results. Most significant advantage for end-users is a wide range of system- and vendor-independent patch cords suitable to reach Cat. 6.

Ensured Performance

Optimized Physical Contact (OPC) enhances your link parameters

Why do you require a controlled ferrule end face? Enhanced services such as Gigabit, 10 Gigabit and soon 40/100 Gigabit Ethernet require a high quality cabling system. Therefore, IEC 608749 specifies the dimensional details of fiber optic connectors in order to ensure interoperability and performance within an ISO 11801 specified application. These dimensional requirements are directly related to the endface characteristics of a polished ferrule, namely its radius, dome offset and fiber position.

If these ferrule characteristics are optimal, an Optimized Physical Contact (OPC) between the two connectors is guaranteed. This will enhance data transmission parameters like optical performance, Attenuation, Return Loss and data link stability.

Also, the optical interoperability between connectors of different suppliers can be ensured by controlled endfaces. As a result of OPC a stable physical contact between the endfaces is achieved. This provides a very low Insertion Loss as well as a high Return Loss in order to run high speed applications like 10/40/100 Gigabit Ethernet. All products in this catalog that feature the Ensured Performance logo provide OPC at all time. AMP NETCONNECT guarantees a controlled endface for all OM3, OM4 and OS2 assemblies and field installable products (MT-RJ and LightCrimp Plus).

Index

Universal Connectivity Platform

Rack efficiency and multiple media deployment

The Universal Connectivity Platform (UCP) is designed to deliver rack efficiency and multiple media deployment. It comprises a versatile range of components that include patch panels, subfloor panel and overhead panel mounts, pre-terminated links and adaptor modules. One common patch panel, either angled or flat, is used to accommodate both copper and fiber, and the units can be installed within or outside the 19-inch envelope. Side mounting brackets maximize usable space along the vertical posts of the rack system, while adaptive mounting brackets can be used strategically above and below the racks.

The UCP accepts pre-terminated copper looms, fiber cassettes and MRJ21 high density copper connectivity cassettes, for faster deployment and high reliability. It is also fully compatible with TE Connectivity's AMPTRAC managed connectivity solution.

Products which are used inside the Universal Connectivity Platform are marked with the **UCP Compatible** seal.

RoHS Ready

Restriction on the Use of Hazardous Substances

TE Connectivity will support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where required in the process of eliminating the restricted materials. All part numbers in this catalog are RoHS compliant. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

NOTE: For purposes of this catalog, included within the definition of RoHS Compliant are:
- Products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.
- Products that contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products are covered by an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption of the same directive.

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change.

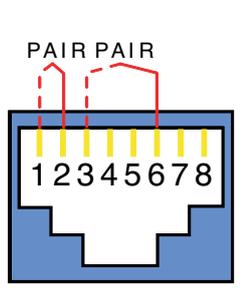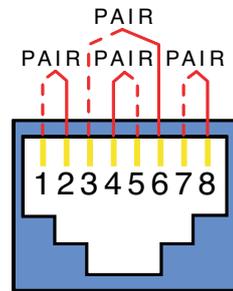## Wiring Diagrams for Modular Plugs and Jacks

T568A Wiring

Pins   **Pairs**

1 2 3 4 5 6 7 8

Pair 1

Pair 3   Pair 2   Pair 4

Tip . . . .
Ring ──────

T568B Wiring

Pins   **Pairs**

1 2 3 4 5 6 7 8

Pair 1

Pair 2   Pair 3   Pair 4
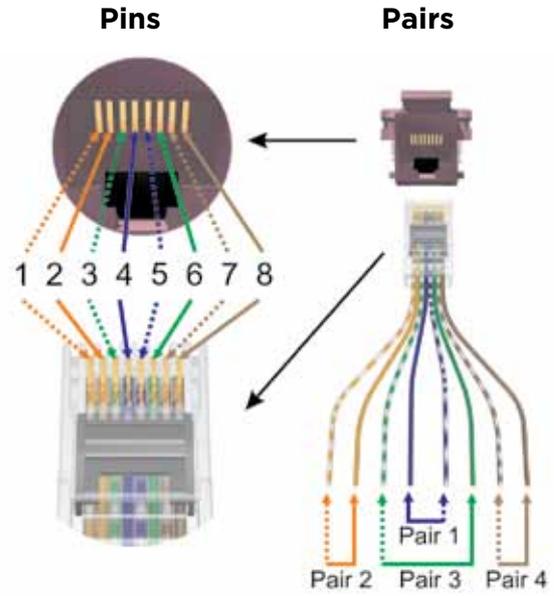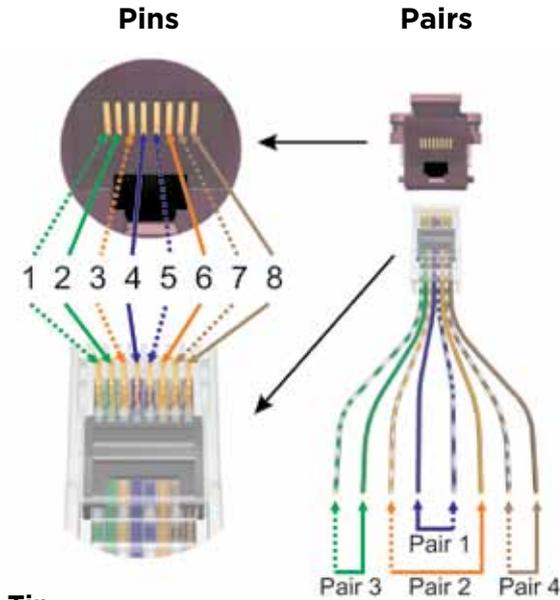
Application Wiring Diagrams for Modular Jacks

● **10Base-T**
● **100Base-TX**

PAIR PAIR

1 2 3 4 5 6 7 8

Tip . . . .
Ring ──────

● **1000Base-T**
● **10GBase-T**

PAIR

PAIR PAIR PAIR

1 2 3 4 5 6 7 8

● **Token Ring**
● **ISDN, xDSL**

PAIR
PAIR

1 2 3 4 5 6 7 8
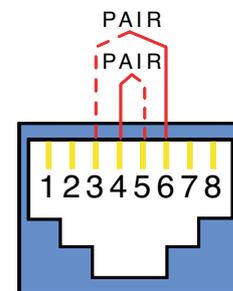
● **ATM/TP-PMD**
● **1000Base-TX2**

PAIR   PAIR

1 2 3 4 5 6 7 8
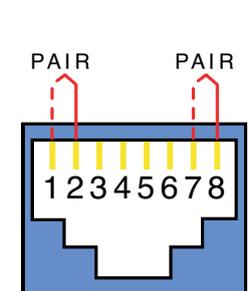
Note: All of the applications listed above (as well as most other communications applications) can be implemented on both T568A and T568B jacks.

Index

TE connectivity

Twenty-five years from now, you'll thank us.

We are confident that your AMP NETCONNECT system will keep performing to current industry standards. If ever it does not meet those standards within 25 years of the date of installation, we'll provide the reasonable parts and labor to replace or repair the AMP NETCONNECT product.

- 25 years coverage on system performance
- 25 years coverage on components
- 25 years coverage on applications
- Based on industry standards
- Includes parts and labor
- TE Connectivity provides coverage directly
  to the end user— if something is wrong,
  TE Connectivity will make it right

It's Standard Equipment

This coverage is automatically part of the package when*:
- TE Connectivity products are specified end-to-end
- A TE Connectivity-authorized Networking, Design & Installation (ND&I) contractor registers the network project with TE Connectivity
- That ND&I performs the actual installation in accordance with TE Connectivity requirements

Who's Covered

Unlike most system suppliers, TE Connectivity provides warranty coverage directly to the end user.

Many suppliers provide coverage to the installers, who then provide coverage to the customers. But with the TE Connectivity warranties, there are no middlemen. The warranties are between you and TE Connectivity.

Which means if something goes wrong, we'll fix it.

TE 25 | ENTERPRISE NETWORKS SYSTEM WARRANTY   **TE 25 | ENTERPRISE NETWORKS COMPONENT WARRANTY**

* Some conditions may apply. For more information contact your local TE Enterprise Networks sales office (see backpage of this catalog for phone and fax).

TE *connectivity*

Index
Imprint

The product portfolio shown in this catalog contains the most important AMP NETCONNECT cabling system components for the Asia region. However, not every available product or product type can be displayed. In case of requests regarding products not shown or for any other question please contact one of the TE Enterprise Networks Country Sales Offices found on the back cover.

TE Enterprise Networks Regional Sales Headquarters:

North America
Greensboro, NC, USA
Ph: +1-800-553-938
Fx: +1-717-986-7406

Latin America
Buenos Aires, Argentina
Ph: +54-11-4733-2200
Fx: +54-11-4733-2282

EMEA
Kessel-Lo, Belgium
Ph: +32-16-35-1321
Fx: +32-16-35-2188

SAARC
Bangalore, India
Ph: +91-80-4011-5000
Fx: +91-80-4011-5030

Asia
Hong Kong, China
Ph: +852-2735-1628
Fx: +852-2735-1625

Pacific
Sydney, Australia
Ph: +61-2-8748-9500
Fx: +61-2-9748-8487

TE Enterprise Networks in Asia:

China
Ph: +86-400-820-6015

Hong Kong
Ph: +852-2735-1628
Fx: +852-2735-1625

Indonesia
Ph: +62-21-2929-3800
Fx: +62-21-2929-3899

Japan
Ph: +81-44-844-8071
Fx: +81-44-844-8732

Korea
Ph: +82-2-3415-4551
Fx: +82-2-3486-1787

Malaysia
Ph: +603-7806-3055
Fx: +603-7805-2831

Philippines
Ph: +63-2-988-9400
Fx: +63-2-846-6180

Singapore
Ph: +65-6590-5049
Fx: +65-6482-1012

Taiwan
Ph: +886-2-8768-2788
Fx: +886-2-8768-3469

Thailand
Ph: +66-2-834-6200
Fx: +66-2-955-0513

Vietnam - HCMC
Ph: +84-8-3823-8473
Fx: +84-8-3823-8533

Vietnam - Hanoi
Ph: +84-4-6277-9651
Fx: +84-4-6277-9655

Contact us:
Please contact us at one of the regional offices shown above

www.te.com/enterprise-asia

LifeElectronics
Живое партнерство

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.

- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.

- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.

Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru