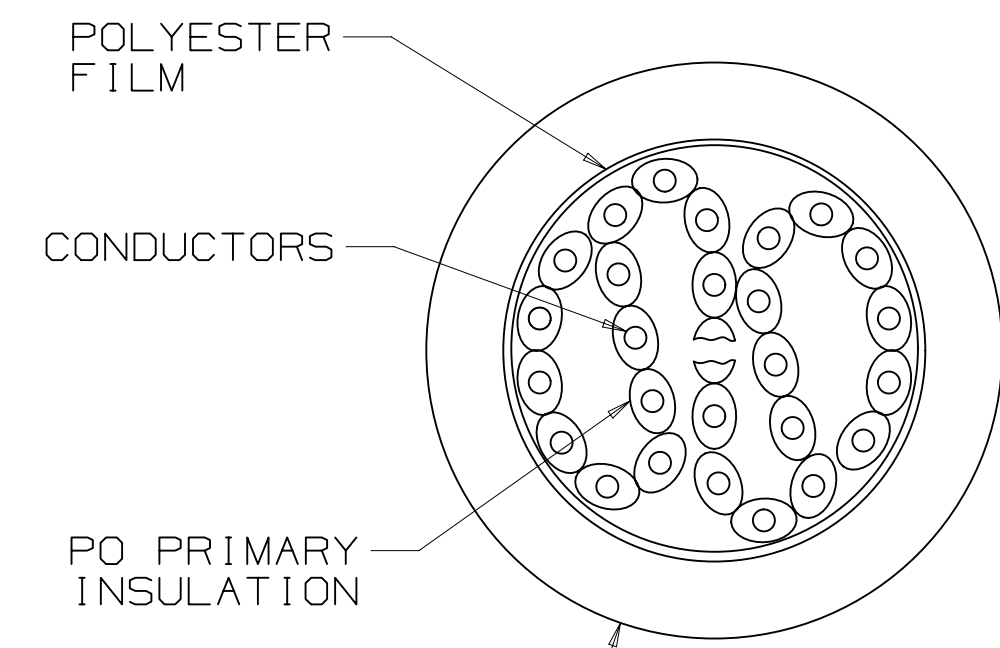


3M™ ROUND, JACKETED, FLAT CABLE, HF759 SERIES
 .050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO



Ø .035±.005 [.89]
 PO JACKET THICKNESS



- * LOW SMOKE ZERO HALOGEN (LSZH) INSULATION. ADVANTAGES OF LSZH INSULATION ARE THE LOW SMOKE (IEC 61034-2-2005) AND LOW TOXICITY OF COMBUSTION GASES (NF X 70-100-2-2006), REDUCING THE RISK TO FIREFIGHTERS AND REDUCING THE SOOT AND CORROSION DAMAGE TO NEARBY EQUIPMENT.
- * ROUND CONSTRUCTION PERMITS MORE EASY ROUTING.
- * 28 AWG WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATION TO BROAD LINE OF IDC CONNECTORS.
- * CONTINUOUS SPLIT/BOND REPEAT ALLOWS FOR MASS TERMINATIONS OF IDC CONNECTORS.
- * PRIMARY CABLE IS ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.

- NOTES
1. REGULATORY INFORMATION: VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.
 2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 3. BLUE MARKING ON ONE EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.
 4. DIMENSION "B" PERTAINS TO BONDED AREA ONLY.

ORDERING INFORMATION

HF759/XX XX XX

NUMBER OF CONDUCTORS (SEE TABLE 1)

BLANK = STANDARD
 SF = SPLICE FREE

BLANK = STANDARD
 SO = CONTINUOUSLY BONDED WIRE (NO SPLIT)

NOTE:
 AVAILABLE IN STANDARD 275FT ROLLS. CONTACT 3M FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS AND/OR CUSTOM ROLL LENGTHS.

2 PHYSICAL :

JACKET MATERIAL : HALOGEN FREE POLYOLEFIN (PO)
 COLOR : DARK GRAY
 PRIMARY MATERIAL : HALOGEN FREE POLYOLEFIN (PO)
 COLOR : DARK GRAY

MARKING :
 STANDARD : NONE
 CONDUCTORS : 28 AWG, 7 X 36 AWG (7 X Ø .127) TINNED STRANDED COPPER
 SHIELDING : POLYESTER FILM

2 ELECTRICAL :

VOLTAGE RATING : USA 150V CANADIAN 150V EU: <50V
 INSULATION RESISTANCE : (PRIMARY CABLE) >1 X 10¹⁰Ω/10ft. [3m]

CHARACTERISTIC IMPEDANCE:	UNBALANCED	BALANCED
	75Ω	136Ω
CAPACITANCE:	22.6 pF/ft [74.3 pF/m]	12.4 pF/ft [40.6 pF/m]
INDUCTANCE:	.13μH/ft [.43μH/m]	.23μH/ft [.75μH/m]
PROPAGATION DELAY:	1.69 ns/ft [5.54 ns/m]	1.69 ns/ft [5.54 ns/m]
VELOCITY OF PROPAGATION:	60%	60%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.
 BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR.
 "MEASURED VALUES ARE TYPICAL"

2 ENVIRONMENTAL :

TEMPERATURE RATING: -40°C TO +105°C (EIA-364-32G, METHOD A, TEST CONDITION 2)
 -10°C TO +75°C (UL TEMPERATUE RATING)

FLAMMABILITY RATING: INTERNAL: HORIZONTAL FLAME PER UL758
 EXTERNAL: CABLE FLAME (VERTICAL) PER UL758

HALOGEN FREE IS DEFINED AS BOTH 1) NO HALOGEN COMPOUNDS THAT ARE INTENTIONALLY ADDED TO THE PRODUCT OR USED IN THE MANUFACTURING PROCESS FOR THE PRODUCT AND 2) ANY IMPURITIES PRESENT ARE LESS THAN 900ppm BROMINE, LESS THAN 900ppm CHLORINE AND/OR LESS THAN 1500ppm TOTAL BROMINE AND CHLORINE. THE LATTER ARE THE LEVELS SET FORTH IN CERTIAN INDUSTRY STANDARDS FOR PRINTED CIRCUIT BOARDS, SUCH AS THE INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) 61249-2-21 STANDARDS. THIS INFORMATION REPRESENTS 3M'S KNOWLEDGE AND BELIEF WHICH MAY BE BASED IN WHOLE OR IN PART ON INFORMATION PROVIDED BY 3RD PARTY SUPPLIERS TO 3M.

NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B" SEE NOTE 4
9	HF759/09	0.26 [6.6]	0.40 [10.2]
10	HF759/10	0.26 [6.6]	0.45 [11.4]
14	HF759/14	0.27 [6.9]	0.65 [16.5]
15	HF759/15	0.27 [6.9]	0.70 [17.8]
16	HF759/16	0.27 [6.9]	0.75 [19.1]
20	HF759/20	0.30 [7.6]	0.95 [24.1]
24	HF759/24	0.33 [8.4]	1.15 [29.2]
25	HF759/25	0.33 [8.4]	1.20 [30.5]
26	HF759/26	0.33 [8.4]	1.25 [31.8]
30	HF759/30	0.37 [9.4]	1.45 [36.8]
34	HF759/34	0.37 [9.4]	1.65 [41.9]
36	HF759/36	0.39 [9.9]	1.75 [44.5]
37	HF759/37	0.39 [9.9]	1.80 [45.7]
40	HF759/40	0.39 [9.9]	1.95 [49.5]
50	HF759/50	0.44 [11.2]	2.45 [62.2]
60	HF759/60	0.47 [11.9]	2.95 [74.9]
64	HF759/64	0.50 [12.7]	3.15 [80.0]

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
 INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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 INFORMATION CALL 800-225-5373



UL FILE NO: E42769
 STYLE NO: 22170

INCH [MM]		
TOLERANCE - UNLESS NOTED		
.X	.XX	.XXX
INCH ±.1 ±.05 ±.010		
[] = DIM. FOR REFERENCE ONLY		

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JUN 14, 2018		
DIVISION		DIVISION CODE		DATE		
		EMSD		JUN 14, 2018		
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED		DATE		
				JUN 14, 2018		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS		DATE		
				JUN 14, 2018		
MAX SURFACE ROUGHNESS	DEF SURFACES	INCHES		DATE		
				JUN 14, 2018		
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TITLE				CAGE NUMBER		
RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE				D 78-5100-2336-5		
MODEL				REV.		
HF759				E		

78-5100-2336-5
 DRAWING NUMBER
 Time 8/1/2018 11:51:00 AM
 UTC Offset (hrs) 6
 Imaged: Central Standard

8 7 6 5 4 3 2 1

3M™ ROUND, JACKETED, FLAT CABLE, HF759 SERIES

.050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO

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 6801 River Place Blvd.
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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		E	79568	JUL 31, 2018	JNC	BM
		REVISED & REDRAWN				
ISSUE CODES	DATE	DATE	DATE	DATE	DATE	DATE
	C	JUN 14, 2018	MFG			
	CHKD		DATE	DATE	DATE	DATE
			B. MIZE	JUN 14, 2018		
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2018				
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DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED				
		INCHES	RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE			
		.00 ±	TITLE			
		.000 ±	RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE			
		.0000 ±	CAGE NUMBER			
THIRD ANGLE PROJECTION		0 ±	D 78-5100-2336-5			
INTERPRET PER ASME Y14.5 - 2009		.0 ±	DRAWING NO.			
		.00 ±	E			
MAX SURFACE ROUGHNESS		.00 ±	REV.			
ON SURFACES		.00 ±	SHT 2 OF 2			
MARKED ONLY		200 ±	MODEL			
		ANGLES ±	HF759			

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
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- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru