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General Description:

18 AWG solid bare copper-covered steel conductor, foam polyethylene insulation, Duobond IV® quad shield (100% coverage), PVC inner jacket, aluminum interlocked armor, PVC sunlight-resistant outer jacket.

Usage (Overall)

Suitable Applications: ControlNet™, Modbus II, Industrial Coax

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|----------------------------------|-----------|
| 1 | 18 | Solid | BCCS - Bare Copper Covered Steel | 1.016 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|-------------------------|-----------|
| FPE - Foam Polyethylene | 4.572 |

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (mm) |
|--------------------------|----------------|
| PVC - Polyvinyl Chloride | 7.569 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1 | Bonded Duofoil® | Tape | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | AL - Aluminum | 60 |
| 3 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 4 | | Braid | AL - Aluminum | 40 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.143 |

Armor

Armor Type: Interlocking

Armor Material: Aluminum

Diameter over Armor: .501

Overall Cable

Overall Nominal Diameter: 15.011 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Bulk Cable Weight: 211.324 Kg/Km

| | |
|-----------------------------------|------------|
| Max. Recommended Pulling Tension: | 889.640 N |
| Min. Bend Radius/Minor Axis: | 180.340 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CL2, CM |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| RG Type: | 6/U |

Flame Test

| | |
|-----------------|---------------------------------|
| UL Flame Test: | UL1685 Vertical Tray Flame Test |
| CSA Flame Test: | FT4 |

Suitability

| | |
|------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Sunlight Resistance: | Yes |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 75 |

Nom. Inductance:

| |
|-------------------|
| Inductance (µH/m) |
| 0.318257 |

Nom. Capacitance Conductor to Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 53.1522 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 82 |

Nominal Delay:

| |
|--------------|
| Delay (ns/m) |
| 4.19968 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 91.868 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 11.8116 |

Nom. Attenuation:

| |
|-----------------------------------|
| Freq. (MHz) Attenuation (dB/100m) |
|-----------------------------------|

METRIC MEASUREMENT VERSION

123092A Coax - ControlNet™ Quad Shielded Coax

| | |
|-----|---------|
| 1 | 1.14835 |
| 2 | 1.24678 |
| 5 | 1.47645 |
| 10 | 1.93579 |
| 20 | 2.82166 |
| 50 | 4.49497 |
| 100 | 6.46357 |
| 200 | 9.25242 |
| 300 | 11.4179 |
| 400 | 13.2552 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Minimum Structural Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------|-------------|-------------------|------------------|---------------|
| | | 5 | 50 | 23 |

Notes (Overall)

Notes: ControlNet is a ControlNet International trademark.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|----------|-------------|--------------|-------|----------------------|
| 123092A J221000 | 305 MT | 68.039 KG | BLUE, STRONG | | 3092A ALUM ARMOR PVC |
| 123092A J225000 | 1,524 MT | 360.608 KG | BLUE, STRONG | | 3092A ALUM ARMOR PVC |
| 123092A 0101000 | 305 MT | 68.039 KG | BLACK | | 3092A ALUM ARMOR PVC |
| 123092A 0102000 | 610 MT | 140.614 KG | BLACK | | 3092A ALUM ARMOR PVC |

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