

8618 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information
please call

1-800-Belden1



Description:

16 AWG stranded (19x29) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® shield (100% coverage), 18 AWG stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3 | 16 | 19x29 | TC - Tinned Copper |

Total Number of Conductors: 3

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PE - Polyethylene | 0.813 |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®) | Tape | Aluminum Foil-Polyester Tape | 100 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 18 | 16x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.7874 |

Overall Cable

Overall Cabling Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | Red |
| 3 | Clear |

Overall Nominal Diameter: 8.306 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 20253)

Bulk Cable Weight: 89.292 Kg/Km

Max. Recommended Pulling Tension: 489.302 N

Min. Bend Radius/Minor Axis: 88.900 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL3

METRIC MEASUREMENT VERSION

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| | |
|--|-----------------------------|
| AWM Specification: | UL Style 20253 (600 V 80°C) |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| 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 |

Flame Test

| | |
|-----------------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|-----------------------|-------------------|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

| |
|---------------------------|
| Capacitance (pF/m) |
| 85.306 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|---------------------------|
| Capacitance (pF/m) |
| 164.05 |

Nom. Conductor DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 15.7488 |

Max. Operating Voltage - UL:

| Voltage | Description |
|-----------|----------------|
| 600 V RMS | AWM Style 2107 |
| 300 V RMS | CL3 |

Max. Recommended Current:

| |
|-----------------------------|
| Current |
| 7 Amps per conductor @ 25°C |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|-------------------|
| 8618 060U500 | 152 MT | 14.288 KG | CHROME | | 3 #16 LDPE FS PVC |
| 8618 0601000 | 305 MT | 30.391 KG | CHROME | C | 3 #16 LDPE FS PVC |
| 8618 060500 | 152 MT | 14.969 KG | CHROME | C | 3 #16 LDPE FS PVC |
| 8618 0605000 | 1,524 MT | 147.418 KG | CHROME | | 3 #16 LDPE FS PVC |

Notes:

C = CRATE REEL PUT-UP.

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