

8618 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information
please call

1-800-Belden1

**General 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 (in.) |
|---------------------|----------------------|
| PE - Polyethylene | 0.032 |

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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .031 |

Overall Cable

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 0.327 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|---------------------------|
| Operating Temperature Range: | -20°C To +80°C |
| UL Temperature Rating: | 80°C (UL AWM Style 20253) |
| Bulk Cable Weight: | 60 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 110 lbs. |
| Min. Bend Radius/Minor Axis: | 3.500 in. |

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

| | |
|---------------------------------------|-----------------------------|
| NEC/(UL) Specification: | CL3 |
| AWM Specification: | UL Style 20253 (600 V 80°C) |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| 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 |

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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/ft)

26

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

50

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.8

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 | 500 FT | 31.500 LB | CHROME | | 3 #16 LDPE FS PVC |
| 8618 0601000 | 1,000 FT | 67.000 LB | CHROME | C | 3 #16 LDPE FS PVC |
| 8618 060500 | 500 FT | 33.000 LB | CHROME | C | 3 #16 LDPE FS PVC |
| 8618 0605000 | 5,000 FT | 325.000 LB | CHROME | | 3 #16 LDPE FS PVC |

Notes:

C = CRATE REEL PUT-UP.

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