

9775 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information
please call

1-800-Belden1



General Description:

18 AWG stranded (19x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 20 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 9 | 18 | 19x30 | TC - Tinned Copper |

Total Number of Conductors: 18

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PP - Polypropylene | 0.019 |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 20 |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.052 |

Overall Cable

Overall Nominal Diameter: 0.655 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |
| 5 | Black & Yellow |
| 6 | Black & Brown |
| 7 | Black & Orange |
| 8 | Red & White |
| 9 | Red & Green |

Pair Lay Length & Direction:

| Lay Length (in.) |
|------------------|
| 1.750 |

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 244 lbs/1000 ft.

Max. Recommended Pulling Tension: 530 lbs.

Min. Bend Radius/Minor Axis: 6.750 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2919 (30 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 |
| 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. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 50 |

Nom. Inductance:

| |
|---------------------------|
| Inductance (µH/ft) |
| .18 |

Nom. Capacitance Conductor to Conductor:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 30 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 55 |

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 66 |

Nom. Conductor DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 6.4 |

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 8.300 Ohm/1000 ft

Max. Operating Voltage - UL:

| Voltage | Description |
|-----------|-------------------|
| 30 V RMS | UL AWM Style 2919 |
| 300 V RMS | CM |

Max. Recommended Current:

| |
|-------------------------------|
| Current |
| 2.7 Amps per conductor @ 25°C |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|--------------|--------|-------|--------------------|
| 9775 060100 | 100 FT | 27.700 LB | CHROME | | 9 FS PR #18 PP PVC |
| 9775 0601000 | 1,000 FT | 260.000 LB | CHROME | C | 9 FS PR #18 PP PVC |
| 9775 060500 | 500 FT | 129.500 LB | CHROME | C | 9 FS PR #18 PP PVC |
| 9775 0605000 | 5,000 FT | 1,225.000 LB | CHROME | | 9 FS PR #18 PP PVC |

Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 2 Revision Date: 09-07-2012

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