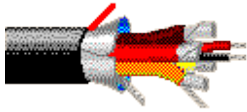


For more Information
please call

1-800-Belden1



General Description:

22 AWG stranded (7x30) TC conductor, polyolefin insulation, individually shielded with bonded Beldfoil®, numbered/color-coded PVC jackets, jackets and shields are bonded so both strip simultaneously, overall black PVC jacket and nylon rip cord.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 16 | 22 | 7x30 | TC - Tinned Copper | 0.762 |

Total Number of Conductors: 32

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PO - Polyolefin | 1.27 |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (mm) |
|--------------------------|----------------|
| PVC - Polyvinyl Chloride | 3.3782 |

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 18 | 19x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Brown |
| 2 | Red |
| 3 | Orange |
| 4 | Yellow |
| 5 | Green |
| 6 | Blue |
| 7 | Purple |
| 8 | Gray |
| 9 | White |
| 10 | Black |
| 11 | Tan |
| 12 | Pink |
| 13 | Lt Gray/Brown |
| 14 | Lt Gray/Red |
| 15 | Lt Gray/Orange |
| 16 | Lt Gray/Yellow |

Overall Nominal Diameter: 19.710 mm

Pair

Pair Color Code Chart:

| Color |
|-------------|
| Red & Black |

Mechanical Characteristics (Overall)

| | |
|--|----------------|
| Operating Temperature Range: | -20°C To +60°C |
| Bulk Cable Weight: | 504.500 Kg/Km |
| Max. Recommended Pulling Tension: | 2052.840 N |
| Min. Bend Radius/Minor Axis: | 203.200 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|--|------------|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMG |
| 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: | UL1666 Riser |
| CSA Flame Test: | FT4 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

METRIC MEASUREMENT VERSION

1819R Multi-Conductor - CMR Rated Cable

50

Nom. Inductance:

Inductance (µH/m)
0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
101.711

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
183.736

Nominal Velocity of Propagation:

VP (%)
66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
48.5588

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
38.7158

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 46.262 Ohm/km

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
1.45 Amps per conductor @ 25°C

Notes (Overall)

Notes: Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Beldfoil® provides high reliability with ease of termination.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|-------|-------|-------------------------|
| 1819R 0101000 | 305 MT | 165.108 KG | BLACK | C | 16 #22 FS PR PVC FS PVC |
| 1819R 010500 | 152 MT | 80.286 KG | BLACK | C | 16 #22 FS PR PVC FS PVC |

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-02-2012

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1819R Multi-Conductor - CMR Rated Cable

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