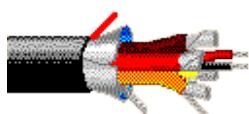


# Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

1817R Multi-Conductor - CMR Rated Cable



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)
8	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 16

### 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:

# Detailed Specifications & Technical Data

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Number	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Gray

Overall Nominal Diameter: 12.776 mm

## Pair

Pair Color Code Chart:

Color
Red & Black

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 215.789 Kg/Km

Max. Recommended Pulling Tension: 1081.360 N

Min. Bend Radius/Minor Axis: 127 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

Plenum Number: 1817P

## Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (μH/m)
0.59058

Nom. Capacitance Conductor to Conductor:

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

1817R Multi-Conductor - CMR Rated Cable

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
1817R 0101000	305 MT	68.946 KG	BLACK	C	8 #22 FS PR PVC FS PVC
1817R 010500	152 MT	36.288 KG	BLACK	C	8 #22 FS PR PVC FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 08-22-2012

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