

## 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:

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:

## 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.

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