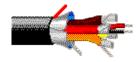


1820R Multi-Conductor - CMR Rated Cable





For more Information please call

1-800-Belden1



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. (in.)
20	22	7x30	TC - Tinned Copper	.030

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PO - Polyolefin	.050

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. (in.)
PVC - Polyvinyl Chloride	.133

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 Cabling

Overall Cabling Color Code Chart:





Detailed Specifications & Technical Data





1820R Multi-Conductor - CMR Rated Cable

Red
Orange
Yellow
Green
Blue
Purple
Gray
White
Black
Tan
Pink
Gray/Brown Stripe
Gray/Red Stripe
Gray/Orange Stripe
Gray/Yellow Stripe
Gray/Green Stripe
Gray/Blue Stripe
Gray/Purple Stripe
Gray/Gray Stripe

0.865 in. **Overall Nominal Diameter:**

Pair

Pair Color Code Chart:

Color Red and Black

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

Me	Mechanical Characteristics (Overall)			
	Operating Temperature Range:	-20°C To +60°C		
	Bulk Cable Weight:	365 lbs/1000 ft.		
	Max. Recommended Pulling Tension:	570.700 lbs.		
	Min. Bend Radius (Install)/Minor Axis:	8.750 in.		

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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



Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



1820R Multi-Conductor - CMR Rated Cable

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/ft) .18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20

14.100 Ohm/1000 ft

Deg. C:

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended 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

Revision Number: 1 Revision Date: 09-22-2008

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Detailed Specifications & Technical Data





1820R Multi-Conductor - CMR Rated Cable

determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.