

1822R Multi-Conductor - CMR Rated Cable



**Obsolete
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1-800-BELDEN1**

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.)
26	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	Stranding	Conductor Material
22	7x30	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:**

Number	Color
1	Brown Print
2	Red Print
3	Orange Print
4	Yellow Print

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5	Green Print
6	Blue Print
7	Purple Print
8	Gray Print
9	White Print
10	Black Print
11	Tan Print
12	Pink Print
13	Gray/Brown Stripe Print
14	Gray/Red Stripe Print
15	Gray/Orange Stripe Print
16	Gray/Yellow Stripe Print
17	Gray/Green Stripe Print
18	Gray/Blue Stripe Print
19	Gray/Purple Stripe Print
20	Gray/Gray Stripe Print
21	Gray/White Stripe Print
22	Gray/Black Stripe Print
23	Gray/Tan Stripe Print
24	Gray/Pink Stripe Print
25	Blue/Brown Stripe Print
26	Blue/Red Stripe Print

Overall Nominal Diameter: 0.989 in.

Pair**Pair Color Code Chart:**

Color
Red and Black

Pair Lay Length & Direction:

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Bulk Cable Weight:	433.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	734.400 lbs.
Min. Bend Radius (Install)/Minor Axis:	9.250 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

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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)

31

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

56

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.8

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

11.8

Ind. Pair Nominal Shield DC Resistance @ 20
Deg. C: 14.100 Ohm/1000 ft

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
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