METRIC MEASUREMENT VERSION



1412R Multi-Conductor - CMR Rated Cables



For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) TC conductor, polyolefin insulation, individually shielded Beldfoil® (100% coverage) numbered/color-coded PVC jackets, jackets and shields bonded to strip simultaneously, overall Beldfoil shield and 18 AWG TC drain wire.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
16	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 32

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	1.016

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:



Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	2.8194

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
18	7x26	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:

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

Overall Nominal Diameter: 15.799 mm

Pair

Pair Color Code Chart:

Number	Color
1	Red & Black

Mechanical	Characteristics	(Overall)

Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	321.451 Kg/Km
Max. Recommended Pulling Tension:	1272.190 N
Min. Bend Radius/Minor Axis:	157.988 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

ame Test	
MII Order #39 (China RoHS):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU CE Mark:	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
CEC/C(UL) Specification:	CMG
NEC/(UL) Specification:	CMR

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

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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) 190.298

Nominal Velocity of Propagation:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 76.4473

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 19.686

Ind. Pair Nominal Shield DC Resistance @ 20

52.168 Ohm/km

Deg. C

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1.05 Amps per conductor @ 25°C

Notes (Overall)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1412R 0101000	305 MT	105.234 KG	BLACK	С	16 #24 PR PO BFS PVC FS PVC
1412R 010500	152 MT	53.071 KG	BLACK	С	16 #24 PR PO BFS PVC FS PVC

Notes

C = CRATE REEL PUT-UP.

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