Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

5202FM Multi-Conductor - Commercial Applications

For more Information please call

1-800-Belden1

Description:

16 AWG stranded (7x24) bare copper conductors, ceramifiable silicone insulation, Beldfoil® shield, FRPE (low smoke non-halogen) jacket, sequential footage marking every two feet.

Usage (Overall)

Suitable Applications: Survivability, Survivability from Attack by Fire, Fire Alarm Circuit Integrity, CI, Survivability by NFPA72, Sim to MI, Similar to Mineral Insulated, FPLR-CI, Emergency Circuits, Notification Devices, Fire Pumps, 2 hour fire rating

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	16	7x24	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
Silicone Rubber	.034

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Polyester Tape-Aluminum Foil	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	Nom. Wall Thickness (in.)
FRPE - Flame Retardant Polyethylene	.045

Overall Cable

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
4.5	2.6

Overall Cabling Color Code Chart:

Number	Color
1	Black#1
2	Black#2
3	Black#3
4	Black#4

Overall Nominal Diameter: 0.401 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

UL Temperature Rating: 105°C

Bulk Cable Weight:	103 lbs/1000 ft.
Max. Recommended Pulling Tension:	142.800 lbs.
Min. Bend Radius (Install)/Minor Axis:	4 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	FPLR-CI
NEC Articles:	760
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):	01/01/2005
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, UL2196 Two Hour Circuit Integrity

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
31

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.1

Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	FPLR only applications
41 V RMS	CI applications

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5202FM 0021000	1,000 FT	112.000 LB	RED	C	4 #16 SIL FS FRNHPO

Notes:
C = CRATE REEL PUT-UP.

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