Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

5220UM Multi-Conductor - Commercial Applications - 2 Cond Cabled

For more Information
please call

1-800-Belden1

Description:

16 AWG solid bare copper conductors, ceramifiable silicone insulation, FRPE (low smoke non-halogen) jacket, sequential footage marking every two feet.

Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	16	Solid	BC - Bare Copper

Insulation

Insulation Material:

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

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.)
3.75	3.2

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter:	0.329 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	52 lbs/1000 ft.
Max. Recommended Pulling Tension:	62.500 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.300 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	FPLR-CI
NEC Articles:	760

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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)
19

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.0

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
5220UM 0021000	1,000 FT	59.000 LB	RED	C	TW PR #16 SIL FRNHPO

Notes:
C = CRATE REEL PUT-UP.

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