



Product: [5320FM](#)

Electronic, 2 C #18 Sol BC, Silicone Ins, OS, LSZH Jkt, FPLR-CI (UL2196)

Product Description

High Temperature Electronic, 2 Conductor 18AWG (Solid) Bare Copper, Silicone Insulation, Overall Beldfoil® Shield, LSZH Outer Jacket, FPLR-CI (UL2196)

Technical Specifications

Product Overview

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 Devices, Fire Pumps, 2 hour fire rating
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
18	Solid	BC - Bare Copper	2

Conductor Count:	2
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Insulation

Material	Nominal Wall Thickness
Silicone Rubber	0.034 in

Color Chart

Number	Color
1	Black
2	Red

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	7x28

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene	0.314 in	0.045 in

Table Notes:	Flame Retardant
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Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
5.86 Ohm/1000ft	9 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
27 pF/ft

Voltage

UL Description	UL Voltage Rating
FPLR only applications	300 V RMS

CI applications	41 V RMS
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Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-20°C To +105°C

Mechanical Characteristics

Bulk Cable Weight:	45 lbs/1000ft
Max. Pull Tension:	39.2 lbs
Min Bend Radius/Minor Axis:	3.25 in

Standards

NEC/(UL) Compliance:	FPLR-CI
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Applicable Environmental and Other Programs

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Riser
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Update and Revision:	Revision Number: 0.119 Revision Date: 09-30-2020
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