



Product: [5302FM](#)

Electronic, 4 C #18 Str BC, Silicone Ins, OS, LSZH Jkt, FPLR-CI (UL2196)

Product Description

High Temperature Electronic, 4 Conductor 18AWG (7x26) 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
------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
18	7x26	BC - Bare Copper	4

Conductor Count:	4
------------------	---

Insulation

Material	Nominal Wall Thickness
Silicone Rubber	0.034 in

Color Chart

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

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	0.372 in	0.045 in

Table Notes:	Flame Retardant
--------------	-----------------

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

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	94 lbs/1000ft
Max. Pull Tension:	89.6 lbs
Min Bend Radius/Minor Axis:	3.75 in

Standards

NEC/(UL) Compliance:	FPLR-CI
----------------------	---------

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, LSOH, Toxicity Testing

UL Flammability:	UL1666 Riser,UL2196 Two Hour Circuit Integrity
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

History

Update and Revision:	Revision Number: 0.122 Revision Date: 02-16-2021
----------------------	--------------------------------------------------

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.