

5000FM Multi-Conductor - Commercial Applications - 2 Cond Cabled



For more Information
please call

1-800-Belden1

**Description:**

12 AWG stranded (7x20) 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 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:**

# Conductors	AWG Stranding	Conductor Material
2	12 7x20	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
14 7x22	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.)
4.75	2.5

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 0.417 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 105°C

Bulk Cable Weight: 109 lbs/1000 ft.

5000FM Multi-Conductor - Commercial Applications - 2 Cond Cabled

Max. Recommended Pulling Tension:	173.600 lbs.
--	--------------

Min. Bend Radius (Install)/Minor Axis:	4.200 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)

40

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.6

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

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
5000FM 0021000	1,000 FT	117.000 LB	RED	C	FS PR #12 SIL FRNHPO

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-18-2011

© 2012 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 herein 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 "AS IS" basis, with no representations or warranties, whether express,

5000FM Multi-Conductor - Commercial Applications - 2 Cond Cabled

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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.