Flexible Millimetric

Copper Multi-conductor

(3182Y / 3183Y / 3184Y)

Prysmian Group

Description

The Flexible Millimetric is a copper multi-conductor formed with soft copper Class 5 flexible cords insulated with thermoplastic PVC. The cores are then helically cabled and protected with a black or gray weather resistant thermoplastic PVC outer jacket.

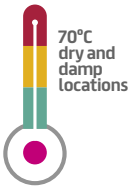
Standard Specifications

The Flexible Millimetric multi-conductors are built based on the following:

- Standards: **BS EN 60228, BS EN 6004, IEC 60227 and 60228.**
- Certificate: **CIDET # 05484.**

Features

- The Flexible Millimetric is designed to operate at 300/500 V at 70°C maximum operating temperature in dry, humid and wet environments.



- The Flexible Millimetric is manufactured in the following configurations: duplex, triplex and quadruple conductor's cores, ranging from 1.5 mm^2 up to 10.0 mm^2 gauges.
- The conductor colors per configuration are:
  - **Duplex:** blue and brown
  - **Triplex:** blue, brown and green
  - **Quadruplex:** black, blue, brown and green
- The PVC jacket provides capability to not propagate fire when exposed to flames.
- Complies with RoHS *(Restriction of Hazardous Substances)* regulation.

Aplicaciones

- The Flexible Millimetric conductors is widely used to connect appliances, hand tools, luminaries and low power mobile units. They are also used as portable electrical extension cords at home, commercial and construction sites in dry humid or wet locations.

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PRYSMIAN GROUP
Central America & Caribbean
Kilometer 11 General Cañas Highway. Heredia, Costa Rica
Customer Service Hub: + (506) 2298-4800
info.centroamerica@prysmiangroup.com
www.generalcable.com

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Technical Information

Dimensions and nominal feature

The conductor operating amperage is defined by the installation conditions and operating temperatures identified in TABLE B.52.4 of IEC 60364-5-52 latest version

Gauge	Insulation Thickness		Jacket Thickness		External Diameter		Weight	DC Max. @ 20°C Resistance
mm^2	in	mm	in	mm	in	mm	kg	Ω/km
1,50	0,015	0,381	0,004	0,102	0,108	2,743	17,77	13,30
2,50	0,015	0,381	0,004	0,102	0,124	3,149	26,92	7,98
4	0,015	0,381	0,004	0,102	0,144	3,657	40,65	4,95
6	0,020	0,508	0,004	0,102	0,174	4,419	60,25	3,30
10	0,030	0,762	0,005	0,127	0,233	5,918	104,37	1,91
16	0,030	0,762	0,005	0,127	0,299	7,594	163,14	1,21
25	0,040	1,016	0,006	0,152	0,377	9,586	252,32	0,78
35	0,040	1,016	0,006	0,152	0,427	10,845	366,90	0,554
50	0,050	1,270	0,007	0,178	0,473	12,021	504,97	0,386
70	0,050	1,270	0,007	0,178	0,538	13,654	718,60	0,272
95	0,050	1,270	0,007	0,178	0,605	15,363	965,30	0,206
120	0,060	1,524	0,008	0,203	0,691	17,540	1222,46	0,161
150	0,060	1,524	0,008	0,203	0,753	19,120	1496,92	0,129
185	0,060	1,524	0,008	0,203	0,808	20,519	1756,34	0,105
240	0,060	1,524	0,008	0,203	0,919	23,343	2402,77	0,0801

Note: The values given may vary according to the manufacturing tolerances

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