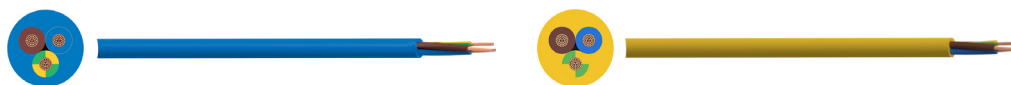


318-A / BS 6004 Flexible Arctic Grade Multicore Cable

pro-POWER



RoHS
Compliant

Application

Arctic grade PVC multicore cable manufactured to BS 6004 are designed to withstand severe external temperatures and will remain flexible at temperatures down to -40°C . Making them particularly suitable for outdoor applications and for use where flexibility is required at sub zero temperatures. At normal temperatures the cable is very flexible, offering some of the characteristics usually found in elastomeric cables.

Characteristics

Voltage Rating (Uo/U)

300/500V

Temperature Rating

Fixed: -40°C to $+60^{\circ}\text{C}$

Minimum Bending Radius

Fixed: 6 x overall diameter

Cable Standards

BS 6004 (previously BS 7919 Table 44), BS EN/IEC 60332-1-2



Construction

Conductor

Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

Insulation

Arctic grade PVC (Polyvinyl Chloride) Type TI4 according to BS EN 50363

Sheath

Arctic grade PVC (Polyvinyl Chloride) Type 10 according to BS 7655

Core Identification

3 core: Blue, Brown, Green/Yellow

Sheath Colour

Blue, Yellow

Dimensions

Part Number	No. of Cores	Nominal Cross Sectional Area mm^2	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP-3183Y-1.5MM-ARTIC BLUE	3	1.5	0.7	0.9	8.1	105
PP-3183Y-1.5MM-ARTIC YELLOW	3	1.5	0.7	0.9	8.1	105

www.element14.com
www.farnell.com
www.newark.com
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Part Number	No. of Cores	Nominal Cross Sectional Area mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP-3183Y-2.5MM-ARTIC BLUE	3	2.5	0.8	1.1	10	163
PP-3183Y-2.5MM-ARTIC YELLOW	3	2.5	0.8	1.1	10	163
PP-3183Y-4MM-ARTIC BLUE	3	4	0.8	1.2	11.3	224
PP-3183Y-4MM-ARTIC YELLOW	3	4	0.8	1.2	11.3	224

Conductors

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Max. Diameter of Wires in Conductor mm	Max. Resistance of Conductor at 20°C Plain Wires Ω / km
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95

Electrical Characteristics

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	Current Carrying Capacity At 30°C	
	Single-Phase AC Amps	Three-Phase AC Amps
1.5	16	16
2.5	25	20
4	32	25

Voltage Drop

Nominal Cross Sectional Area mm ²	DC or Single-Phase AC mV/A/m	Three-Phase AC mV/A/m
1.5	32	27
2.5	19	16
4	12	10

Conductor operating temperature: 60°C

De-Rating Factors:

60°C Thermoplastic or Thermosetting Insulated Cords

Ambient Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

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Part Number Table

Description	Nominal Cross Sectional Area mm ²	Colour	Reel Length	Part Number
318-A / BS 6004 Flexible Arctic Grade Multicore Cable	1.5	Blue	100m	PP-3183Y-1.5MM-ARTIC BLUE
		Yellow		PP-3183Y-1.5MM-ARTIC YELLOW
	2.5	Blue		PP-3183Y-2.5MM-ARTIC BLUE
		Yellow		PP-3183Y-2.5MM-ARTIC YELLOW
	4	Blue		PP-3183Y-4MM-ARTIC BLUE
		Yellow		PP-3183Y-4MM-ARTIC YELLOW

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