

318-A / BS 6004 Arctic Grade Cable **multicomp**PRO

RoHS
Compliant



Application

Arctic grade PVC 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°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

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-300M | 3 | 1.5 | 0.7 | 0.9 | 8.1 | 105 |

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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 |

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 |

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 |

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 |

Part Number Table

| Description | Nominal Cross Sectional Area mm ² | Colour | Reel Length | Part Number |
|------------------------------------|---|--------|-------------|--------------------------------|
| 318-A / BS 6004 Arctic Grade Cable | 1.5 | Blue | 300m | PP-3183Y-1.5MM-ARTIC BLUE-300M |

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