

# Arctic Grade PVC Cable Range

## 318-A

### Insulated & Sheathed Flexible Cables

(Complies with BS 6004)



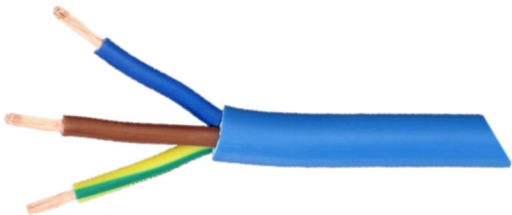
Plain Annealed Class 5 Flexible Copper / Arctic Grade PVC Insulation  
/ Arctic Grade PVC Sheath

#### Application

Arctic Grade PVC cables are designed for use in extreme cold temperature conditions. The cable remains flexible at temperatures as low as -40°C and is well suited to outdoor applications which require installation in subzero temperatures.

#### Cable Description

Plain annealed Class 5 flexible copper conductor to BS EN 60228  
Arctic Grade PVC insulation,  
Arctic Grade PVC outer sheath.



#### Insulation Colours

2 Core - Blue, Brown,

3 Core – Green/Yellow, Blue, Brown

4 Core – Green/Yellow, Brown, Black, Grey

5 Core – Green/Yellow, Brown, Black, Grey, Blue

#### Sheath Colours

Blue / Yellow

#### Physical characteristics

| No of Cores | Conductor Class | Nominal Cross-Sectional Area (mm <sup>2</sup> ) | Nominal Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Nominal Overall Diameter (mm) | Maximum Conductor Resistance at 20°C (ohms/km) | Approx. Weight of Cable (kg/km) |
|-------------|-----------------|-------------------------------------------------|-----------------------------------|-------------------------------|-------------------------------|------------------------------------------------|---------------------------------|
| 2           | 5 (24/0.20)     | 0.75                                            | 0.60                              | 0.80                          | 6.50                          | 26.00                                          | 50.00                           |
| 2           | 5 (32/0.20)     | 1.00                                            | 0.60                              | 0.80                          | 6.80                          | 19.50                                          | 60.00                           |
| 2           | 5 (30/0.25)     | 1.50                                            | 0.70                              | 0.80                          | 7.80                          | 13.30                                          | 80.00                           |
| 2           | 5 (50/0.25)     | 2.50                                            | 0.80                              | 1.00                          | 9.30                          | 7.98                                           | 120.00                          |
| 2           | 5 (56/0.30)     | 4.00                                            | 0.80                              | 1.10                          | 10.50                         | 4.95                                           | 160.00                          |
| 3           | 5 (24/0.20)     | 0.75                                            | 0.60                              | 0.80                          | 6.80                          | 26.00                                          | 60.00                           |
| 3           | 5 (32/0.20)     | 1.00                                            | 0.60                              | 0.80                          | 7.10                          | 19.50                                          | 70.00                           |
| 3           | 5 (30/0.25)     | 1.50                                            | 0.70                              | 0.90                          | 8.30                          | 13.30                                          | 98.00                           |
| 3           | 5 (50/0.25)     | 2.50                                            | 0.80                              | 1.10                          | 10.50                         | 7.98                                           | 150.00                          |
| 3           | 5 (56/0.30)     | 4.00                                            | 0.80                              | 1.20                          | 11.50                         | 4.95                                           | 200.00                          |
| 4           | 5 (24/0.20)     | 0.75                                            | 0.60                              | 0.80                          | 7.60                          | 26.00                                          | 72.00                           |
| 4           | 5 (32/0.20)     | 1.00                                            | 0.60                              | 0.90                          | 8.20                          | 19.50                                          | 88.00                           |
| 4           | 5 (30/0.25)     | 1.50                                            | 0.70                              | 1.00                          | 9.60                          | 13.30                                          | 120.00                          |
| 4           | 5 (50/0.25)     | 2.50                                            | 0.80                              | 1.10                          | 11.40                         | 7.98                                           | 180.00                          |
| 4           | 5 (56/0.30)     | 4.00                                            | 0.80                              | 1.20                          | 12.50                         | 4.95                                           | 265.00                          |
| 5           | 5 (24/0.20)     | 0.75                                            | 0.60                              | 0.90                          | 8.60                          | 26.00                                          | 90.00                           |

British Cables Company Limited, Delaunays Road, Blackley, Manchester, M9 8FP, United Kingdom

Tel: +44 (0) 161 741 2345 | Fax: +44 (0) 161 795 8393 | Web: [www.britishcablescompany.com](http://www.britishcablescompany.com) | Email: [info@britishcables.com](mailto:info@britishcables.com)

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|   |             |      |      |      |       |       |        |
|---|-------------|------|------|------|-------|-------|--------|
| 5 | 5 (32/0.20) | 1.00 | 0.60 | 0.90 | 9.40  | 19.50 | 105.00 |
| 5 | 5 (30/0.25) | 1.50 | 0.70 | 1.10 | 10.60 | 13.30 | 150.00 |
| 5 | 5 (50/0.25) | 2.50 | 0.80 | 1.20 | 12.50 | 7.98  | 225.00 |
| 5 | 5 (56/0.30) | 4.00 | 0.80 | 1.40 | 15.00 | 4.95  | 330.00 |

Mechanical characteristics

| Characteristic      | Unit     | Value           |
|---------------------|----------|-----------------|
| Temperature Rating  | °C       | -40°C to +60 °C |
| Minimum Bend Radius | Diameter | 6D              |

Electrical characteristics at 20°C

| Characteristic       | Unit | Value   |
|----------------------|------|---------|
| Voltage Rating Uo/U  | V    | 300/500 |
| Current Rating Table | -    | 4F3A    |