

# Technical Data Sheet

**Anixter Part No:**

**BS6724-2C-0025-78**

## Description

*stranded plain annealed copper conductors, XLPE insulation, cores laid up, LSF sheath, galvanised steel wire armour, LSF sheath (black). Generally to BS6724*

## Dimensions

|                               |        |                 |
|-------------------------------|--------|-----------------|
| Number of cores               | 2      | no.             |
| Nominal conductor size        | 2.5    | mm <sup>2</sup> |
| Nominal conductor stranding   | 7/0.67 | #/mm            |
| Insulation thickness          | 0.7    | mm              |
| Inner sheath thickness        | 0.8    | mm              |
| Nominal inner sheath diameter | 9.0    | mm              |
| Armour wire size              | 0.9    | mm              |
| Outer sheath thickness        | 1.4    | mm              |
| Nominal outer diameter        | 13.6   | mm              |

## Electrical Characteristics

|                                                         |          |                  |
|---------------------------------------------------------|----------|------------------|
| Nominal voltage rating (U <sub>0</sub> /U)              | 600/1000 | V <sub>rms</sub> |
| Maximum DC conductor resistance @ 20°C                  | 7.41     | ohm/km           |
| Maximum AC conductor resistance @ 90°C                  | 9.45     | ohm/km           |
| Reactance @ 50 Hz                                       | 0.101    | ohm/km           |
| Impedance @ 90°C, 50Hz                                  | 9.45     | ohm/km           |
| Voltage drop                                            | 19       | mV/A/m           |
| Maximum DC armour resistance @ 20°C                     | 8.80     | ohm/km           |
| Conductor short-circuit rating (1s)                     | 0.357    | kA               |
| Armour short-circuit rating (1s)                        | 0.782    | kA               |
| Sustained Current Ratings:                              |          |                  |
| Buried direct (15°C ground temperature, 1.2°C m/W)      | 49       | A                |
| In single-way duct (15°C ground temperature, 1.2°C m/W) | 41       | A                |
| In air (25°C ambient temperature)                       | 41       | A                |

## Physical Characteristics

|                                             |                                                                  |       |
|---------------------------------------------|------------------------------------------------------------------|-------|
| Maximum conductor operating temperature     | 90                                                               | °C    |
| Maximum conductor short-circuit temperature | 250                                                              | °C    |
| Maximum armour short-circuit temperature    | 200                                                              | °C    |
| Conductor material                          | Stranded Class 2 plain annealed copper conductors to BS EN 60228 |       |
| Insulation material                         | XLPE Type GP8 to BS7655 Section 1.3                              |       |
| Inner sheath material                       | LSF Type LTS1 to BS7655 Section 6.1                              |       |
| Armour material                             | Mild galvanised steel wires to BS EN 10257-1                     |       |
| Outer sheath material                       | LSF Type LTS1 to BS7655 Section 6.1                              |       |
| Maximum pulling tension by conductor eye    | 30                                                               | kgf   |
| Minimum bending radius                      | 90                                                               | mm    |
| Flame resistance                            | Flame retardant to BS EN 50266-2-2                               |       |
| Weight                                      | 360                                                              | kg/km |

**Core Identification:** blue, grey for two wire earthed d.c. circuit

**Issue No: 1**

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