

Twinflex PVC Battery Cable

pro-POWER

RoHS
Compliant



Application:

For indoors and outdoors, in dry as well as wet location on motorised vehicles, or battery powered equipment such as forklifts and field conveyors. Also suitable for use in high quality booster cables.

Cable Standards:

Made in accordance with the following:

Figure of 8 configuration based on VDE0250
BS EN 60332-1-2, BS EN 62230

Construction:

| | |
|------------|---|
| Conductor | : Class 6 extra flexible copper conductor to BS EN 60228 (previously BS 6360) |
| Insulation | : TPE (Thermoplastic Elastomer) |
| Sheath | : PVC (Polyvinyl Chloride) Type TM2 according to BS EN 50363 |

Characteristics:

| | |
|-----------------------|------------------------|
| Voltage Rating (Uo/U) | : 450/750V |
| Temperature Rating | : -20°C to +70°C |
| Min. Bending Radius | : 6 × overall diameter |
| Insulation Colour | : Red and Black |
| Sheath Colour | : Transparent |

Electrical Characteristics:

Current Carrying Capacity

| No. of Cores | Nominal Cross Sectional Area mm ² | Current Rating at 60°C Amps |
|--------------|--|-----------------------------|
| 2 | 6 | 54 |
| 2 | 10 | 73 |
| 2 | 16 | 98 |
| 2 | 25 | 129 |

De-Rating Factors:

| Ambient Temperature | 25°C | 30°C | 35°C | 40°C | 45°C |
|---------------------|------|------|------|------|------|
| De-Rating Factor | 1.00 | 0.96 | 0.9 | 0.88 | 0.83 |

To allow the operator to handle the cable during use, with suitable gloves, a maximum conductor temperature of 60°C is advisable.

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Conductors:

Class 6 Flexible Copper Conductors for Single Core and Multi-Core Cables

| Nominal Cross Sectional Area mm ² | Stranding | Max. Diameter of Wires in Conductor mm | Max. Resistance of Conductor at 20°C |
|--|----------------------|--|--------------------------------------|
| | | | Plain Wires Ω/km |
| 6 | 8mm × 24mm × 0.19mm | 0.21 | 3.3 |
| 10 | 19mm × 16mm × 0.19mm | 0.21 | 1.91 |
| 16 | 19mm × 26mm × 0.19mm | 0.21 | 1.21 |
| 25 | 19mm × 41mm × 0.19mm | 0.21 | 0.78 |

The above table is in accordance with BS EN 60228 (previously BS 6360)

Dimensions:

| Part Number | No of Cores | Nominal Cross Sectional Area mm ² | AWG Size | Nominal Thickness of Insulation mm | Nominal Thickness of Sheath mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|-------------|-------------|--|----------|------------------------------------|--------------------------------|-----------------------------|----------------------|
| PP000894 | 2 | 6 | 10 | 1 | 1 | 5.3 × 12.6 | 190 |
| PP000895 | 2 | 10 | 8 | 1 | 1.2 | 6 × 13.8 | 294 |
| PP000896 | 2 | 16 | 6 | 1 | 1.2 | 6.7 × 15.2 | 420 |
| PP000897 | 2 | 25 | 4 | 1.1 | 1.3 | 8.1 × 18 | 627 |

Part Number Table

| Description | Reel Length (m) | Part Number |
|----------------------------|-----------------|-------------|
| Twinflex PVC Battery Cable | 25 | PP000894 |
| | | PP000895 |
| | | PP000896 |
| | | PP000897 |

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