# Pilot Cables

KEYSTONE CABLE
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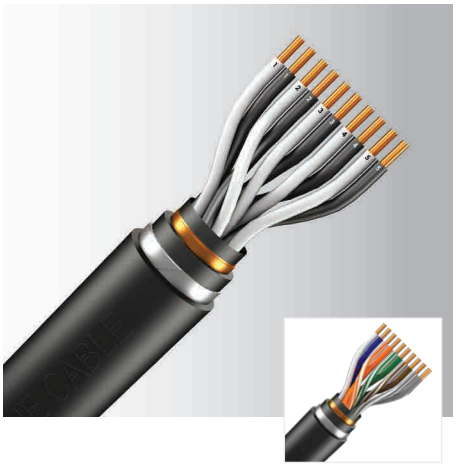
www.keystone-cable.com

0.6/1(1.2)kV Multi-Pair
PE Insulated, Armoured, PVC Sheathed Cable
Description: CU/PE/CTS/PE/DSTA/PVC-AT



| | |
|---|---|
| Application : | Pilot cables associated with power distribution and transmission system are used for control, protection, signaling, speech and data transmission purposes. Such systems are mainly operated by the electricity providers |
| Voltage rating : | 0.6/1(1.2)KV |
| | 15KV (Max. induced voltage) |
| Construction : | Annealed plain copper solid (Class 1) conductor, solid polyethylene insulated, twisted pairs, non-hygroscopic and non-wicking dielectric material and polyethylene tape applied over the cable assembly, copper tape screened, polyethylene bedding, double steel tape armoured and extruded PVC or anti-termite PVC compound sheath |
| Insulation colour: | Black, White with numbering (For colour coded cables, please refer to table 32 on page 48) |
| Specification : | IEC60502-1 |
| Operating temperature: | 70˚C |

| Part No. | | Nominal Cross Sectional Area | No. of Pairs | Approx. Conductor Diam. | Nominal Insulation Thickness | Nom. Thickness of Steel Tape | Approx. Overall Diameter of Cable | Approx. Weight of Cable |
|---|---|---|---|---|---|---|---|---|
| **Black/White** | **Colour Code** | mm² | No. | mm | mm | mm | mm | kg/km |
| **735P5001** | **735P5002** | 1.5 | 5 | 1.38 | 0.8 | 0.2 | 23.8 | 715.0 |
| **730P5001** | **730P5002** | | 10 | 1.38 | 0.8 | 0.2 | 30.5 | 1105.0 |
| **73EP5001** | **73EP5002** | | 15 | 1.38 | 0.8 | 0.2 | 34.6 | 1430.0 |
| **73KP5001** | **73KP5002** | | 20 | 1.38 | 0.8 | 0.2 | 38.0 | 1740.0 |
| **745P5001** | **745P5002** | 2.5 | 5 | 1.78 | 0.8 | 0.2 | 25.6 | 865.0 |
| **740P5001** | **740P5002** | | 10 | 1.78 | 0.8 | 0.2 | 33.5 | 1400.0 |
| **74EP5001** | **74EP5002** | | 15 | 1.78 | 0.8 | 0.2 | 37.9 | 1845.0 |
| **74KP5001** | **74KP5002** | | 20 | 1.78 | 0.8 | 0.5 | 42.9 | 2655.0 |

**Related Test Requirement:**

| Conductor Cross Sectional Area | Max. Conductor Resistance* at 20˚C | Min. Insulation Resistance | Max. Mutual Capacitance | Max. Capacitance Unbalance | High Voltage Test for 1min |
|---|---|---|---|---|---|
| mm² | Ω/km | MΩ•km | nF/km | pF/500m | kV(AC) |
| 1.5 | 12.3 | 5000 | 150 | 500 | 10 |
| 2.5 | 7.56 | 5000 | 150 | 500 | 10 |

*Note : For multi-pair cables, the maximum D.C. resistance shall be increased by 2%.

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**Table 31: Recommended ordering parameters**

In order to respond to your requirement promptly, please provide the following information in your request for quotation:

| No, | Information |
|---|---|
| 1 | International or Special Standard<br>(Alternatively, please provide the precise use of the cable for our technical team to make the recommendation) |
| 2 | Rated voltage |
| 3 | Copper or aluminium conductors |
| 4 | Size of each conductor |
| 5 | Insulation material: XLPE or others |
| 6 | Number and identification of conductors |
| 7 | Armour type |
| 8 | Packing |
| 9 | Required delivery time |
| 10 | Required validity |

**Table 32: Identification of pairs for pilot cable**

| Pair | A - wire | B - wire | Pair | A - wire | B - wire |
|---|---|---|---|---|---|
| 1 | White | Blue | 11 | Black | Blue/black stripe |
| 2 | White/orange stripe | Orange | 12 | Black/orange stripe | Orange/black stripe |
| 3 | White/green stripe | Green | 13 | Black/green stripe | Green/black stripe |
| 4 | White/brown stripe | Brown | 14 | Black/brown stripe | Brown/black stripe |
| 5 | White/grey stripe | Grey | 15 | Black/grey stripe | Grey/black stripe |
| 6 | Red | Blue/red stripe | 16 | Yellow | Blue/yellow stripe |
| 7 | Red/orange stripe | Orange/red stripe | 17 | Yellow/orange stripe | Orange/yellow stripe |
| 8 | Red/green stripe | Green/red stripe | 18 | Yellow/green stripe | Green/yellow stripe |
| 9 | Red/brown stripe | Brown/red stripe | 19 | Yellow/brown stripe | Brown/yellow stripe |
| 10 | Red/grey stripe | Grey/red stripe | 20 | Yellow/grey stripe | Grey/yellow stripe |