

## Pilot Cables (Customized Alternatives)

0.6/1(1.2)kV Multi-Pair

XLPE Insulated, Armoured, PVC Sheathed Cable

Description: CU/XLPE/PVC/SWA/PVC-AT

Model code: XPS-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 companies
Voltage rating :	0.6/1(1.2)KV
Construction :	Annealed plain copper solid (Class 1) conductor, cross linked polyethylene(XLPE) insulated, twisted pairs, non-hygroscopic tape applied over the cable assembly, black PVC bedding, galvanised steel wires 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:	90°C

Part No.	Nominal Cross Sectional Area	No. of Pairs	Approx. Conductor Diam.	Nominal Insulation Thickness	Nom. Diameter of Steel Wire	Approx. Overall Diameter of Cable	Approx. Weight of Cable
Black/White	mm <sup>2</sup>	No.	mm	mm	mm	mm	kg/km
<b>735P6423</b>	1.5	5	1.38	0.7	1.25	22.4	875.0
<b>730P6423</b>		10	1.38	0.7	1.6	29.3	1475.0
<b>273EP6423</b>		15	1.38	0.7	1.6	32.9	1820.0
<b>73KP6423</b>		20	1.38	0.7	2.0	36.8	2430.0
<b>745P6423</b>		5	1.78	0.7	1.25	24.3	1040.0
<b>740P6423</b>	2.5	10	1.78	0.7	1.6	32.2	1820.0
<b>74EP6423</b>		15	1.78	0.7	2.0	37.0	2550.0
<b>74KP6423</b>		20	1.78	0.7	2.0	41.1	3100.0

### 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 5min
mm <sup>2</sup>	Ω/km	MΩ•km	nF/km	pF/500m	kV(AC)
1.5	12.3	1000	150	500	3.5
2.5	7.56	1000	150	500	3.5

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

**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 (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