

Instrumentation Cables

500V Pair(s) or Triad(s)

XLPE Insulated, Overall Screen, Unarmoured & Armoured, PVC Sheathed Cable

Description: CU/XLPE/OS/PVC-UV or CU/XLPE/OS/PVC/SWA/PVC-UV

Model Code: XOP-UV or XOPSP-UV



Application :	This cable is used for the transmission of analogue and digital signals in machineries with measurement instruments and control systems.
Voltage rating :	500V
Construction :	Plain annealed copper (IEC 60228 Class 2), XLPE insulated, twisted pair(s) or triad(s), overall screen (aluminium/polyester tape with tinned copper drain wire), unarmoured or galvanized steel wire armoured, UV resistant PVC sheathed cable
Insulation colour :	Pair(s) : Black, White (or with numbering) Triad(s) : Red, Black, White (or with numbering)
Sheath colour :	Black (other colour upon request) Blue (for intrinsically safe system upon request)
Specification :	BS EN 50288-7, IEC 60332-1-2 IEC 60332-3 (upon request)
Operating temperature :	90°C

No. of Pair(s)/ Triad(s)	Conductor		Insulation Thickness (mm)	Unarmoured Cable			Armoured Cable		
	Nominal Area (mm ²)	No./Diam. of Strand (no./mm)		Part No.	Approx. Overall Diam. (mm)	Approx. Weight (kg/km)	Part No.	Approx. Overall Diam. (mm)	Approx. Weight (kg/km)
1P				041P6750	7.3	70	041P6751	12.0	275
2P				042P6750	10.1	105	042P6751	15.2	385
4P				044P6750	12.0	155	044P6751	16.9	480
6P				046P6750	14.4	215	046P6751	19.7	600
8P				048P6750	16.1	260	048P6751	21.5	685
10P				040P6750	18.4	320	040P6751	24.4	935
12P				04BP6750	18.9	360	04BP6751	25.2	1000
16P				04FP6750	21.0	435	04FP6751	27.2	1150
20P				04KP6750	23.5	535	04KP6751	29.9	1340
24P	0.5	7/0.31	0.6	04RP6750	26.2	650	04RP6751	33.2	1725
36P				04P26750	30.1	880	04P26751	37.4	2130
1T				041T6750	7.4	75	041T6751	12.4	295
2T				042T6750	11.6	140	042T6751	16.7	450
4T				044T6750	13.4	205	044T6751	18.6	550
6T				046T6750	16.0	285	046T6751	21.4	705
10T				040T6750	20.5	435	040T6751	26.8	1125
12T				04BT6750	21.5	495	04BT6751	27.7	1215
16T				04FT6750	23.7	610	04FT6751	29.1	1600
24T				04RT6750	29.6	905	04RT6751	36.8	2130

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	Nominal Area (mm ²)	No./Diam. of Strand (mm)		Part No.	Approx. Overall Diam. (mm)	Approx. Weight (kg/km)	Part No.	Approx. Overall Diam. (mm)	Approx. Weight (mm)
1P	0.75	7/0.37	0.6	051P6750	7.5	75	051P6751	12.6	295
2P				052P6750	11.0	130	052P6751	16.2	430
4P				054P6750	12.8	180	054P6751	17.9	520
6P				056P6750	15.5	255	056P6751	20.7	660
8P				058P6750	17.6	325	058P6751	22.7	905
10P				050P6750	19.6	390	050P6751	25.8	1050
12P				05BP6750	20.4	435	05BP6751	26.4	1115
16P				05FP6750	22.7	540	05FP6751	29.0	1320
20P				05KP6750	25.5	670	05KP6751	32.4	1525
24P				05RP6750	28.4	805	05RP6751	35.5	1985
36P				05P26750	32.6	1100	05P26751	39.8	2450
1T				051T6750	8.0	85	051T6751	12.8	315
2T				052T6750	12.3	160	052T6751	17.4	490
4T				054T6750	14.6	245	054T6751	19.9	630
6T				056T6750	17.3	340	056T6751	22.6	785
10T				050T6750	22.2	530	050T6751	28.7	1285
12T	05BT6750	23.0	595	05BT6751	29.3	1380			
16T	05FT6750	25.7	760	05FT6751	32.6	1825			
24T	05RT6750	32.0	1110	05RT6751	39.4	2470			
1P	1	7/0.43	0.6	061P6750	7.9	80	061P6751	12.7	305
2P				062P6750	11.7	145	062P6751	16.8	460
4P				064P6750	13.6	210	064P6751	18.7	565
6P				066P6750	16.4	295	066P6751	21.6	720
8P				068P6750	18.6	375	068P6751	24.5	995
10P				060P6750	21.0	455	060P6751	27.0	1155
12P				06BP6750	22.0	520	06BP6751	27.9	1250
16P				06FP6750	24.3	645	06FP6751	30.4	1465
20P				06KP6750	27.2	790	06KP6751	34.2	1915
24P				06RP6750	30.3	955	06RP6751	37.2	2205
36P				06P26750	34.6	1325	06P26751	42.8	3075
1T				061T6750	8.3	95	061T6751	13.2	330
2T				062T6750	12.9	185	062T6751	18.1	525
4T				064T6750	15.3	285	064T6751	20.6	695
6T				066T6750	18.6	400	066T6751	24.4	1015
10T				060T6750	23.8	630	060T6751	29.9	1435
12T	06BT6750	24.6	710	06BT6751	30.8	1540			
16T	06FT6750	27.4	905	06FT6751	34.5	2055			
24T	06RT6750	34.2	1350	06RT6751	42.2	3055			

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	Nominal Area (mm ²)	No./Diam. of Strand (mm)		Part No.	Approx. Overall Diam. (mm)	Approx. Weight (kg/km)	Part No.	Approx. Overall Diam. (mm)	Approx. Weight (mm)
1P	1.5	7/0.53	0.6	071P6750	8.6	95	071P6751	13.7	335
2P				072P6750	12.6	180	072P6751	17.8	510
4P				074P6750	15.1	275	074P6751	20.5	675
6P				076P6750	18.1	390	076P6751	24.1	990
8P				078P6750	20.2	480	078P6751	26.4	1165
10P				070P6750	23.1	595	070P6751	29.4	1390
12P				07BP6750	23.9	670	07BP6751	30.3	1490
16P				07FP6750	26.6	855	07FP6751	33.9	1960
20P				07KP6750	29.8	1055	07KP6751	37.1	2305
24P				07RP6750	33.4	1275	07RP6751	41.5	2950
36P				07P26750	38.4	1795	07P26751	46.8	3745
1T				071T6750	9.2	115	071T6751	14.2	370
2T				072T6750	14.5	235	072T6751	19.8	620
4T				074T6750	16.8	370	074T6751	22.1	925
6T				076T6750	20.2	520	076T6751	26.4	1200
10T				070T6750	26.1	830	070T6751	33.2	1905
12T				07BT6750	27.0	945	07BT6751	34.2	2070
16T				07FT6750	30.3	1220	07FT6751	37.4	2470
24T				07RT6750	37.8	1830	07RT6751	46.4	3750
1P				2.5	7/0.67	0.7	081P6750	10.0	125
2P	082P6750	15.0	240				082P6751	20.2	645
4P	084P6750	17.8	385				084P6751	24.0	990
6P	086P6750	21.3	540				086P6751	27.7	1270
8P	088P6750	24.2	700				088P6751	30.6	1520
10P	080P6750	27.6	870				080P6751	34.8	2020
12P	08BP6750	28.6	990				08BP6751	35.7	2180
16P	08FP6750	32.0	1265				08FP6751	39.4	2605
20P	08KP6750	35.8	1570				08KP6751	44.2	3400
24P	08RP6750	40.1	1905				08RP6751	48.7	3955
36P	08P26750	45.4	2710				08P26751	56.2	5600
1T	081T6750	10.7	160				081T6751	15.9	455
2T	082T6750	16.9	325				082T6751	22.2	775
4T	084T6750	20.0	530				084T6751	26.2	1210
6T	086T6750	24.2	760				086T6751	30.5	1580
10T	080T6750	31.3	1235				080T6751	38.6	2545
12T	08BT6750	32.4	1405				08BT6751	39.7	2765
16T	08FT6750	36.4	1835				08FT6751	44.6	3670
24T	08RT6750	45.5	2735				08RT6751	55.4	5580

Table 1 : Electrical Characteristics

Test Item \ Material	PVC	XLPE	PE
A.C. Voltage Test (kV/1 minute)	2	2	2
Minimum Insulation Resistance (MΩ·km)	10	1000	1000
Maximum Mutual Capacitance (nF/km)	250	150	150
Maximum Capacitance Unbalance (pF/500m)	-	500	500
Maximum Inductance (mH/km)	1.0	1.0	1.0

Table 2 : Maximum Inductance to Resistance Ratio (L/R)

Cross-sectional Area	L/R Ratio
(mm ²)	(μH/Ω)
0.5	25
0.75	25
1	25
1.5	40
2.5	60

Table 3 : Conductor Construction Reference

Class \ Cross-Sectional Area (mm ²)	0.5	0.75	1	1.5	2.5
	No./Diam of Strand (no./mm)				
Class 1	1/0.80	1/0.97	1/1.13	1/1.38	1/1.78
Class 2	7/0.31	7/0.37	7/0.43	7/0.53	7/0.67
Class 5	16/0.20	24/0.20	32/0.20	30/0.25	50/0.25

Note : For conductor resistance, please refer to Table 13 (Page 72)