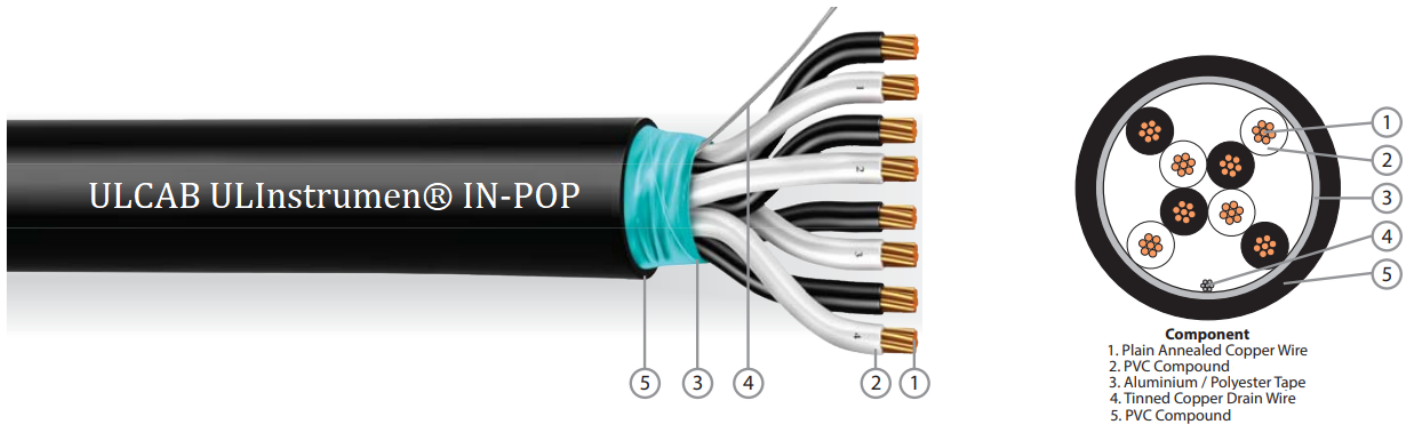


Instrumentation and connection cables

ULInstrumen® IN-POP

CU / PVC / OS / PVC (PAIRS & TRIADS)

PVC Insulated, Overall Aluminium Foil Screened, PVC Sheathed Cable, 300 / 500V, BS EN50288-7



CONSTRUCTION

Conductor:	Plain Annealed Copper, Class 2 Stranded Circular
Insulation:	(1) Polyvinyl Chloride (PVC) Compound Type TI51
Insulation Colour:	Pair/s - Black/White with Black numberings Triad/s - Red/Black/White with Black numberings
Cores Twisted:	Cores twisted to form a pair, triad or quad
Lay Up:	Multi-pairs, triads or quads are assembled together in concentric layers to form the cable core
Wrap Film:	Polyester Binder Tape
Overall Screen:	Aluminium/Polyester Tape, with a Tinned Copper Drain Wire 0.5mm ² (7/0.3mm) (OS)
Outer Sheath:	Flame Retardancy Polyvinyl Chloride (PVC) Compound Type ST2 FR
Outer Sheath Colour:	Black or Blue

ELECTRICAL CHARACTERISTICS

Operating Voltage, U _o /U:	300/500V
Operating Temperature:	-15°C to 70°C (PVC Insulated) -15°C to 90°C (XLPE Insulated)
Final Short Circuit Temperature:	160°C (PVC Insulated) 250°C (XLPE Insulated)
Test Voltage:	2kV for 1 minute

REFERENCE STANDARDS

Design Specification:	BS EN50288-7
Conductor:	IEC60228, BS EN60228
Flame Retardancy:	IEC60332-3

INSTALLATION REFERENCE

Min. Bending Radius (mm):	8 x cable overall diameter
Max. Pulling Tension (N/mm ²):	50

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	No. of Pairs	Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	IN-XOP		IN-POP	
					Cable Overall Diameter (mm)	Approximate Weight (kg/km)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
SINGLE & MULTI-PAIRS	1P	0.5	7 / 0.3	0.6	7.1	58	7.1	63
	2P (Quad)		7 / 0.3	0.6	8.0	81	8.0	90
	2P		7 / 0.3	0.6	10.7	98	10.7	108
	3P		7 / 0.3	0.6	11.5	126	11.5	141
	4P		7 / 0.3	0.6	12.6	152	12.6	171
	5P		7 / 0.3	0.6	13.7	177	13.7	202
	6P		7 / 0.3	0.6	15.1	211	15.1	240
	8P		7 / 0.3	0.6	16.9	260	16.9	300
	10P		7 / 0.3	0.6	19.3	322	19.3	371
	12P		7 / 0.3	0.6	19.9	364	19.9	423
	16P		7 / 0.3	0.6	22.1	465	22.1	533
	20P		7 / 0.3	0.6	24.8	560	24.8	659
	24P		7 / 0.3	0.6	27.7	669	27.7	787
	36P		7 / 0.3	0.6	31.9	943	31.9	1121
SINGLE & MULTI-PAIRS	1P	0.75	7 / 0.37	0.6	7.5	66	7.5	72
	2P (Quad)		7 / 0.37	0.6	8.5	95	8.5	105
	2P		7 / 0.37	0.6	11.6	119	11.6	130
	3P		7 / 0.37	0.6	12.3	148	12.3	165
	4P		7 / 0.37	0.6	13.5	180	13.5	202
	5P		7 / 0.37	0.6	14.9	220	14.9	247
	6P		7 / 0.37	0.6	16.2	253	16.2	285
	8P		7 / 0.37	0.6	18.2	315	18.2	358
	10P		7 / 0.37	0.6	20.8	390	20.8	444
	12P		7 / 0.37	0.6	21.5	444	21.5	509
	16P		7 / 0.37	0.6	24.0	571	24.0	658
	20P		7 / 0.37	0.6	27.0	704	27.0	812
	24P		7 / 0.37	0.6	30.1	840	30.1	970
	36P		7 / 0.37	0.6	34.7	1215	34.7	1384
SINGLE & MULTI-PAIRS	1P	1.0	7 / 0.43	0.6	7.9	74	7.9	80
	2P (Quad)		7 / 0.43	0.6	9.0	108	9.0	120
	2P		7 / 0.43	0.6	12.3	135	12.3	147
	3P		7 / 0.43	0.6	13.0	170	13.0	187
	4P		7 / 0.43	0.6	14.2	207	14.2	231
	5P		7 / 0.43	0.6	15.8	254	15.8	283
	6P		7 / 0.43	0.6	17.2	293	17.2	328
	8P		7 / 0.43	0.6	19.5	378	19.5	424
	10P		7 / 0.43	0.6	22.1	456	22.1	514
	12P		7 / 0.43	0.6	23.0	534	23.0	604
	16P		7 / 0.43	0.6	25.5	674	25.5	767
	20P		7 / 0.43	0.6	28.7	832	28.7	948
	24P		7 / 0.43	0.6	32.0	994	32.0	1133
	36P		7 / 0.43	0.6	36.9	1416	36.9	1626

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1P		7 / 0.53	0.6	8.5	89	8.5	95
2P (Quad)		7 / 0.53	0.6	9.7	134	9.7	147
2P		7 / 0.53	0.6	13.3	164	13.3	177
3P		7 / 0.53	0.6	14.2	211	14.2	230
4P		7 / 0.53	0.6	15.7	268	15.7	294
5P		7 / 0.53	0.6	17.2	319	17.2	352
6P		7 / 0.53	0.6	19.0	381	19.0	420
8P	1.5	7 / 0.53	0.6	21.3	480	21.3	532
10P		7 / 0.53	0.6	24.4	595	24.4	660
12P		7 / 0.53	0.6	25.2	685	25.2	763
16P		7 / 0.53	0.6	28.2	886	28.2	990
20P		7 / 0.53	0.6	31.7	1094	31.7	1224
24P		7 / 0.53	0.6	35.4	1308	35.4	1464
36P		7 / 0.53	0.6	41.1	1895	41.1	2128

SINGLE & MULTI-PAIRS

1P		7 / 0.67	0.7	9.7	117	9.7	126
2P (Quad)		7 / 0.67	0.7	11.4	191	11.4	209
2P		7 / 0.67	0.7	15.7	229	15.7	247
3P		7 / 0.67	0.7	16.8	300	16.8	327
4P		7 / 0.67	0.7	18.6	384	18.6	420
5P		7 / 0.67	0.7	20.4	460	20.4	505
6P		7 / 0.67	0.7	22.5	548	22.4	602
8P	2.5	7 / 0.67	0.7	22.5	709	25.5	782
10P		7 / 0.67	0.7	29.2	879	29.2	970
12P		7 / 0.67	0.7	30.2	1015	30.2	1124
16P		7 / 0.67	0.7	33.8	1315	33.8	1461
20P		7 / 0.67	0.7	38.0	1625	38.0	1807
24P		7 / 0.67	0.7	42.5	1941	42.5	2159
36P		7 / 0.67	0.7	49.2	2817	49.2	3144

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No. of Pairs	Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	IN-XOP		IN-POP	
				Cable Overall Diameter (mm)	Approximate Weight (kg/km)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
1T	0.5	7 / 0.3	0.6	7.4	69	7.4	77
6T		7 / 0.3	0.6	16.8	276	16.8	320
16T		7 / 0.3	0.6	24.9	630	24.9	748
24T		7 / 0.3	0.6	31.2	927	31.2	1105
1T	0.75	7 / 0.37	0.6	7.9	80	7.9	88
6T		7 / 0.37	0.6	18.0	335	18.0	384
16T		7 / 0.37	0.6	27.1	796	27.1	926
24T		7 / 0.37	0.6	34.0	1172	34.0	1367
1T	1.0	7 / 0.43	0.6	8.3	91	8.3	100
6T		7 / 0.43	0.6	19.3	404	19.3	456
16T		7 / 0.43	0.6	28.8	946	28.8	1086
24T		7 / 0.43	0.6	36.2	1398	36.2	1607
1T	1.5	7 / 0.53	0.6	8.9	111	8.9	121
6T		7 / 0.53	0.6	21.2	518	21.2	576
16T		7 / 0.53	0.6	31.9	1254	31.9	1410
24T		7 / 0.53	0.6	40.0	1853	40.0	2087
1T	2.5	7 / 0.67	0.7	10.5	157	10.5	171
6T		7 / 0.67	0.7	25.3	768	25.3	850
16T		7 / 0.67	0.7	38.2	1872	38.2	2090
24T		7 / 0.67	0.7	48.2	2790	48.2	3117

SINGLE & MULTI-TRIADS