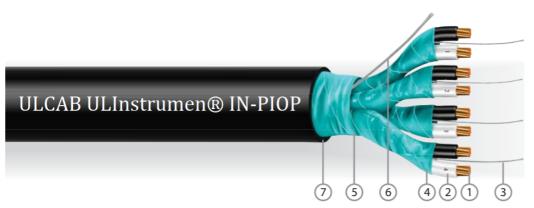
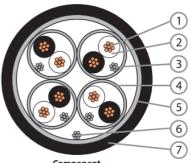
ULInstrumen® IN-PIOP

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

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





Component

1. Plain Annealed Copper Wire

2. PVC Compound or XLPE Compound

3. Tinned Copper Drain Wire

4. Aluminium / Polyester Tape (IS)

5. Aluminium / Polyester Tape (OS)

6. Tinned Copper Drain Wire

7. PVC Compound

CONSTRUCTION

Conductor: Plain Annealed Copper, Class 2 Stranded

Circular

Insulation: 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, traid or quad

Wrap Film: Polyester Binder Tape

Individual Screen: Aluminium/Polyester Tape, with a

Tinned Copper Drain Wire 0.5mm²

(7/0.3mm) (IS)

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 0.5mm² (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, Uo/U: 300/500V

Operating Temperature: -15°C to 70°C (PVC Insulated)

Final Short Circuit Temperature: 160°C (PVC 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/mm²): 50

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		Nominal Conductor Area (mm²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	IN-XIOP		IN-PIOP	
	No. of Pairs				Cable Overall Diameter (mm)	Approximate Weight (kg/km)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
SINGLE & MULTI-PAIRS	1P		7 / 0.3	0.6	7.1	58	7.1	62
	2P		7 / 0.3	0.6	11.3	121	11.3	128
	3P		7 / 0.3	0.6	11.9	151	11.9	161
	4P		7 / 0.3	0.6	13.0	184	13.0	197
	5P		7 / 0.3	0.6	14.4	225	14.4	241
	6P		7 / 0.3	0.6	15.6	259	15.6	279
	8P	0.5	7 / 0.3	0.6	17.7	333	17.7	360
	10P		7 / 0.3	0.6	20.2	411	20.2	445
G G	12P		7 / 0.3	0.6	20.9	469	20.9	509
NIS	16P		7 / 0.3	0.6	23.1	591	23.1	645
	20P		7 / 0.3	0.6	26.0	729	26.0	795
	24P		7 / 0.3	0.6	29.0	870	29.0	951
	36P		7 / 0.3	0.6	33.5	1254	33.5	1375
RS	1P		7 / 0.37	0.6	7.5	66	7.5	70
	2P	0.75	7 / 0.37	0.6	12.0	137	12.0	145
	3P		7 / 0.37	0.6	12.7	174	12.7	185
	4P		7 / 0.37	0.6	14.1	221	14.1	236
ΡĀ	5P		7 / 0.37	0.6	15.4	261	15.4	280
Ė	6P		7 / 0.37	0.6	17.0	311	17.0	333
M	8P		7 / 0.37	0.6	19.0	390	19.0	420
SINGLE & MULTI-PAIRS	10P		7 / 0.37	0.6	21.7	483	21.7	520
털	12P		7 / 0.37	0.6	22.4	553	22.4	598
S	16P		7 / 0.37	0.6	25.1	713	25.1	773
	20P		7 / 0.37	0.6	28.2	879	28.2	953
	24P		7 / 0.37	0.6	31.4	1049	31.4	1139
	36P		7 / 0.37	0.6	36.4	1514	36.4	1648
	1P	1.0	7 / 0.43	0.6	7.9	74	7.9	78
SINGLE & MULTI-PAIRS	2P		7 / 0.43	0.6	12.6	153	12.6	161
	3P		7 / 0.43	0.6	13.6	203	13.6	215
	4P		7 / 0.43	0.6	14.9	250	14.9	266
	5P		7 / 0.43	0.6	16.2	296	16.3	317
	6P		7 / 0.43	0.6	17.9	353	17.9	378
	8P		7 / 0.43	0.6	20.3	456	20.3	488
	10P		7 / 0.43	0.6	23.0	552	23.0	592
	12P		7 / 0.43	0.6	24.0	647	24.0	695
	16P		7 / 0.43	0.6	26.6	820	26.6	885
	20P		7 / 0.43	0.6	29.9	1013	29.9	1093
	24P		7 / 0.43	0.6	33.5	1226	33.5	1324
	36P		7 / 0.43	0.6	38.6	1751	38.6	1896

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	1P	1.5	7 / 0.53	0.6	8.5	89	8.5	93
	2P		7 / 0.53	0.6	13.9	190	13.9	199
	3P		7 / 0.53	0.6	14.8	245	14.8	259
IRS	4P		7 / 0.53	0.6	16.2	304	16.2	323
4-	5P		7 / 0.53	0.6	17.9	373	17.9	396
& MULTI-PAIRS	6P		7 / 0.53	0.6	19.5	434	19.5	462
	8P		7 / 0.53	0.6	22.1	562	22.1	599
В.	10P		7 / 0.53	0.6	25.3	696	25.3	742
SINGLE	12P		7 / 0.53	0.6	26.4	817	26.4	872
S	16P		7 / 0.53	0.6	29.3	1041	29.3	1114
-	20P		7 / 0.53	0.6	33.1	1302	33.1	1393
	24P		7 / 0.53	0.6	36.9	1553	36.9	1663
	36P		7 / 0.53	0.6	42.7	2248	42.7	2413
	1P		7 / 0.67	0.7	9.7	117	9.7	124
	1P 2P		7 / 0.67 7 / 0.67	0.7	9.7 16.3	117 258	9.7 16.3	124 272
RS	2P		7 / 0.67	0.7	16.3	258	16.3	272
PAIRS	2P 3P		7 / 0.67 7 / 0.67	0.7 0.7	16.3 17.4	258 339	16.3 17.4	272 359
LTI-PAIRS	2P 3P 4P		7 / 0.67 7 / 0.67 7 / 0.67	0.7 0.7 0.7	16.3 17.4 19.0	258 339 423	16.3 17.4 19.0	272 359 450
MULTI-PAIRS	2P 3P 4P 5P	2.5	7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1	258 339 423 519	16.3 17.4 19.0 21.1	272 359 450 553
E & MULTI-PAIRS	2P 3P 4P 5P 6P	2.5	7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1 23.2	258 339 423 519 618	16.3 17.4 19.0 21.1 23.2	272 359 450 553 659
IGLE & MULTI-PAIRS	2P 3P 4P 5P 6P 8P	2.5	7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1 23.2 26.3	258 339 423 519 618 800	16.3 17.4 19.0 21.1 23.2 26.4	272 359 450 553 659 855
SINGLE & MULTI-PAIRS	2P 3P 4P 5P 6P 8P 10P	2.5	7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1 23.2 26.3 30.1	258 339 423 519 618 800 990	16.3 17.4 19.0 21.1 23.2 26.4 30.1	272 359 450 553 659 855 1059
SINGLE & MULTI-PAIRS	2P 3P 4P 5P 6P 8P 10P	2.5	7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1 23.2 26.3 30.1 31.2	258 339 423 519 618 800 990 1146	16.3 17.4 19.0 21.1 23.2 26.4 30.1 31.2	272 359 450 553 659 855 1059
SINGLE & MULTI-PAIRS	2P 3P 4P 5P 6P 8P 10P 12P	2.5	7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1 23.2 26.3 30.1 31.2 34.9	258 339 423 519 618 800 990 1146 1486	16.3 17.4 19.0 21.1 23.2 26.4 30.1 31.2 34.9	272 359 450 553 659 855 1059 1228 1595
SINGLE & MULTI-PAIRS	2P 3P 4P 5P 6P 8P 10P 12P 16P 20P	2.5	7 / 0.67 7 / 0.67	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	16.3 17.4 19.0 21.1 23.2 26.3 30.1 31.2 34.9 39.4	258 339 423 519 618 800 990 1146 1486 1855	16.3 17.4 19.0 21.1 23.2 26.4 30.1 31.2 34.9 39.4	272 359 450 553 659 855 1059 1228 1595

^{*} Other pairs, triads and quads configurations are available upon request. * Class 5 conductors are available upon request.

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	No. of Pairs	Nominal Conductor Area (mm²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	IN-XIOP		IN-PIOP	
					Cable Overall Diameter (mm)	Approximate Weight (kg/km)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
	1T		7 / 0.3	0.6	7.5	68	7.5	74
	6T	0.5	7 / 0.3	0.6	16.5	317	16.5	356
	16T		7 / 0.3	0.6	24.4	730	24.4	835
	24T		7 / 0.3	0.6	30.6	1076	30.6	1233
	1T		7 / 0.37	0.6	7.9	79	7.9	86
	6T	0.75	7 / 0.37	0.6	17.7	377	17.7	421
	16T		7 / 0.37	0.6	26.5	899	26.5	1014
SINGLE & MULTI-TRIADS	24T		7 / 0.37	0.6	33.1	1324	33.1	1497
	1T		7 / 0.43	0.6	8.3	89	8.3	97
Ę	6T	1.0	7 / 0.43	0.6	18.7	437	18.7	483
Ĭ	16T		7 / 0.43	0.6	28.1	1052	28.1	1176
GLE 8	24T		7 / 0.43	0.6	35.4	1673	35.4	1756
SINC	1T		7 / 0.53	0.6	8.9	109	8.9	118
	6T	1.5	7 / 0.53	0.6	20.6	561	20.6	614
	16T		7 / 0.53	0.6	31.1	1378	31.1	1517
	24T		7 / 0.53	0.6	39.0	2031	39.0	2240
	1T		7 / 0.67	0.7	10.5	155	10.5	167
	6T	2.5	7 / 0.67	0.7	24.5	813	24.5	888
	16T		7 / 0.67	0.7	37.0	2002	37.0	2201
	24T		7 / 0.67	0.7	46.5	2977	46.5	3275

^{*} Other pairs, triads and quads configurations are available upon request. * Class 5 conductors are available upon request.