

INSTRUMENTATION CABLE, PVC/PE INSULATED, INDIVIDUAL & OVERALL SHIELDED — EN 50288-7

Stranded Copper Conductor

PVC Type A Insulation

Individual Screen Tinned Copper Drain Wire

Individual Screen Al-mylar Tape

Collective Screen Tinned Copper Drain Wire

Collective Screen Al-mylar Tape

Inner Sheath

Gal.Steel Round Wire Armour

Extruded FRLS PVC Type ST1 Outer Sheath

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STANDARD FOLLOWS

EN 50288-7

EN 50288-1

EN 60228

EN 50290-2-22/27

COMPLIANCEConductor resistance
EN 60228Insulation resistance
EN 50288-7L/R Ratio
EN 50288-7Mutual capacitance
EN 50288-7**NOTES**

- Outer sheath also available with PE, FRLS & LSZH on request.
- As per the application/identification requirement, other colour also available on request.

**ISO 9001**
Cert. 99 100 22646 (TÜV SÜD)**ISI**
BIS CM/L 6200267409 (IS 7098 Pt-1)**RoHS**
Compliant**REACH**
Compliant**Make in India**
Manufactured in India



ORDERING & ITEM CODE

PART-REGISTERED

The item master registers individual-&-overall-screened (IOSC) triad codes for 1/2/4/8 triads in 0.5–1.5 sq mm — shown in dark. The remaining triad counts (5/6/10/12/14/16/19/20/24/30/37) are derived from the same structure and carry no item ID until the Item Master Steward registers them.

CODE STRUCTURE

IC · IN · TRIADS · SIZE · TC · PE · DESIGNATION · 0300 · EN50288P7 · IOSC

IN Instrumentation line	TRIADS · SIZE Triad count + T, sq.mm × 100	TC · PE Tinned copper, PE insulated	2YY · 2YWY Unarmoured · round wire armoured	Ø300 · IOSC 300 V, individual & overall screened
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SIZE	TRIADS	UNARMOURD · 2YY	ARMOURD · 2YWY
0.5	2	IC-IN-2T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-2T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	4	IC-IN-4T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-4T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	5	IC-IN-5T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-5T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	6	IC-IN-6T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-6T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	8	IC-IN-8T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-8T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	10	IC-IN-10T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-10T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	12	IC-IN-12T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-12T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	14	IC-IN-14T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-14T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	16	IC-IN-16T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-16T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	19	IC-IN-19T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-19T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	20	IC-IN-20T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-20T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	24	IC-IN-24T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-24T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	30	IC-IN-30T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-30T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
	37	IC-IN-37T-00050-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-37T-00050-TC-PE-2YWY-0300-EN50288P7-IOSC
0.75	2	IC-IN-2T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-2T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	4	IC-IN-4T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-4T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	5	IC-IN-5T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-5T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	6	IC-IN-6T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-6T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	8	IC-IN-8T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-8T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	10	IC-IN-10T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-10T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	12	IC-IN-12T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-12T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	14	IC-IN-14T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-14T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	16	IC-IN-16T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-16T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	19	IC-IN-19T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-19T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	20	IC-IN-20T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-20T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	24	IC-IN-24T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-24T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
	30	IC-IN-30T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-30T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC



ISO 9001

Cert. 99 100 22646 (TÜV SÜD)



ISI

BIS CM/L 6200267409 (IS 7098 Pt-1)

RoHS

Compliant

REACH

Compliant



Make in India

Manufactured in India

	37	IC-IN-37T-00075-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-37T-00075-TC-PE-2YWY-0300-EN50288P7-IOSC
1.0	2	IC-IN-2T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-2T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	4	IC-IN-4T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-4T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	5	IC-IN-5T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-5T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	6	IC-IN-6T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-6T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	8	IC-IN-8T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-8T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	10	IC-IN-10T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-10T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	12	IC-IN-12T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-12T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	14	IC-IN-14T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-14T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	16	IC-IN-16T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-16T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	19	IC-IN-19T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-19T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	20	IC-IN-20T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-20T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	24	IC-IN-24T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-24T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	30	IC-IN-30T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-30T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
	37	IC-IN-37T-00100-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-37T-00100-TC-PE-2YWY-0300-EN50288P7-IOSC
1.5	2	IC-IN-2T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-2T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	4	IC-IN-4T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-4T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	5	IC-IN-5T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-5T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	6	IC-IN-6T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-6T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	8	IC-IN-8T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-8T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	10	IC-IN-10T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-10T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	12	IC-IN-12T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-12T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	14	IC-IN-14T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-14T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	16	IC-IN-16T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-16T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	19	IC-IN-19T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-19T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	20	IC-IN-20T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-20T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	24	IC-IN-24T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-24T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	30	IC-IN-30T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-30T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC
	37	IC-IN-37T-00150-TC-PE-2YY-0300-EN50288P7-IOSC	IC-IN-37T-00150-TC-PE-2YWY-0300-EN50288P7-IOSC

Sizes and triad counts follow the weight & dimension table. PVC-insulated, strip-armoured and LSZH-sheathed variants use the same structure with the corresponding insulation and designation segments.



— WEIGHT & DIMENSION DATA

300 VOLTS, MULTI TRIAD, STR. COPPER, PVC/PE INSULATED, ALUMINIUM MYLAR TAPED INDIVIDUAL & OVERALL SHIELDED, ARMOURED AND UNARMOURED INSTRUMENTATION CABLES AS PER EN 50288-7

AREA OF CONDUCTOR 0.5 SQ MM

Min. thickness of insulation 0.26 mm

ARMoured CABLES							UNARMoured CABLES			
NO. OF TRIADS	INNER SHEATH MM	G.I. ARMOUR WIRE MM	OUTER SHEATH MM	OVERALL DIA. MM	WEIGHT PE KG/KM	WEIGHT PVC KG/KM	OUTER SHEATH MM	OVERALL DIA. MM	WEIGHT PE KG/KM	WEIGHT PVC KG/KM
2	1.0	0.9	1.4	14.3	345	350	1.0	9.7	100	105
4	1.0	0.9	1.4	15.8	445	455	1.0	11.2	160	170
5	1.0	0.9	1.4	16.9	495	510	1.0	12.3	190	205
6	1.1	0.9	1.5	18.4	570	580	1.1	13.6	230	245
8	1.1	0.9	1.5	20.1	670	690	1.1	15.3	290	310
10	1.2	0.9	1.6	22.5	800	830	1.2	17.5	360	390
12	1.2	1.25	1.6	23.8	1000	1030	1.2	18.1	415	450
14	1.3	1.25	1.6	24.9	1090	1130	1.3	19.2	480	520
16	1.3	1.25	1.7	26.2	1190	1240	1.3	20.3	540	580
19	1.3	1.25	1.7	27.3	1320	1370	1.3	21.4	620	680
20	1.4	1.25	1.7	28.8	1400	1460	1.4	22.9	670	720
24	1.4	1.25	1.8	31.4	1610	1680	1.4	25.3	790	850
30	1.5	1.25	1.8	33.2	1830	1920	1.5	27.1	960	1050
37	1.6	1.25	1.9	35.8	2130	2130	1.6	29.5	1170	1280

AREA OF CONDUCTOR 0.75 SQ MM

Min. thickness of insulation 0.26 mm

Armoured Cables							Unarmoured Cables			
No. of Triads	Inner Sheath mm	G.I. Armour Wire mm	Outer Sheath mm	Overall Dia. mm	Weight PE kg/km	Weight PVC kg/km	Outer Sheath mm	Overall Dia. mm	Weight PE kg/km	Weight PVC kg/km
2	1.0	0.9	1.4	15.1	385	390	1.0	10.5	110	US
4	1.0	0.9	1.5	17.1	510	520	1.0	12.3	195	210
5	1.1	0.9	1.5	18.4	580	600	1.1	13.6	245	260
6	1.1	0.9	1.5	19.7	650	670	1.1	14.9	18S	305
8	1.2	0.9	1.6	22.0	800	820	1.2	17.0	370	39S
10	1.3	1.25	1.6	25.1	1080	1120	1.3	19.4	460	490
12	1.3	1.25	1.7	26.0	1180	1220	1.3	20.1	SJ0	570
14	1.3	1.25	1.7	27.0	1290	1330	1.3	21.1	610	6'i0
16	1.4	1.25	1.7	28.4	1410	1460	1.4	22.5	690	740
19	1.4	1.25	1.7	29.7	1560	1620	1.4	23.8	800	860
20	1.4	1.25	1.8	31.3	1650	1720	1.4	2S.2	840	910
24	1.5	1.25	1.8	34.2	1920	2000	1.S	28.1	1010	1090
30	1.6	1.6	1.9	37.0	2420	2520	1.6	30.0	1240	1J30
37	1.7	1.6	2.0	39.9	2800	2920	1.7	32.7	1510	1630



AREA OF CONDUCTOR 1.0 SQ MM

Min. thickness of insulation 0.26 mm

ARMoured CABLES						UNARMoured CABLES				
NO. OF TRIADS	INNER SHEATH MM	G.I. ARMOUR WIRE MM	OUTER SHEATH MM	OVERALL DIA. MM	WEIGHT PE KG/KM	WEIGHT PVC KG/KM	OUTER SHEATH MM	OVERALL DIA. MM	WEIGHT PE KG/KM	WEIGHT PVC KG/KM
2	1.0	0.9	1.4	15.8	425	430	1.0	11.2	140	150
4	1.1	0.9	1.5	18.1	580	590	1.1	13.3	240	255
5	1.1	0.9	1.5	19.4	650	670	1.1	14.6	290	305
6	1.2	0.9	1.5	21.0	750	770	1.2	16.2	345	365
8	1.2	1.25	1.6	23.9	1020	1050	1.2	18.2	440	470
10	1.3	1.25	1.7	26.8	1230	1260	1.3	20.9	550	590
12	1.3	1.25	1.7	27.5	1330	1370	1.3	21.6	640	680
14	1.4	1.25	1.7	28.8	1470	1520	1.4	22.9	740	790
16	1.4	1.25	1.7	30.1	1600	1660	1.4	24.2	830	890
19	1.5	1.25	1.8	31.9	1810	1880	1.5	25.8	980	1050
20	1.5	1.25	1.8	33.4	1910	1980	1.5	27.3	1030	1100
24	1.6	1.6	1.9	37.5	2440	2520	1.6	30.5	1230	1320
30	1.7	1.6	2.0	39.7	2800	2910	1.7	32.5	1510	1620
37	1.7	1.6	2.0	42.4	3210	3340	1.7	35.2	1830	1960

AREA OF CONDUCTOR 1.5 SQ MM

Min. thickness of insulation 0.35 mm

Armoured Cables						Unarmoured Cables				
No. of Triads	Inner Sheath mm	G.I. Armour Wire mm	Outer Sheath mm	Overall Dia. mm	Weight PE kg/km	Weight PVC kg/km	Outer Sheath mm	Overall Dia. mm	Weight PE kg/km	Weight PVC kg/km
2	1.1	0.9	1.5	18.3	530	540	1.1	13.5	195	205
4	1.2	0.9	1.5	20.8	730	740	1.2	16.0	330	355
5	1.2	1.25	1.6	23.2	970	1000	1.2	17.5	400	430
6	1.3	1.25	1.6	25.1	1090	1120	1.3	19.4	480	510
8	1.4	1.25	1.7	28.0	1330	1380	1.4	22.1	620	670
10	1.5	1.25	1.8	31.4	1600	1650	1.5	25.3	780	830
12	1.5	1.25	1.8	32.3	1750	1820	1.5	26.2	900	970
14	1.5	1.25	1.8	33.7	1920	2000	1.5	27.6	1030	1110
16	1.6	1.6	1.9	36.4	2330	2420	1.6	29.4	1170	1260
19	1.6	1.6	1.9	38.0	1590	1690	1.6	31.0	1360	1470
20	1.7	1.6	2.0	40.3	2770	2880	1.7	33.1	1450	1560
24	1.8	1.6	2.1	44.4	3210	3340	1.8	37.0	1740	1870
30	1.9	1.6	2.1	46.8	3700	3860	1.9	39.4	2130	2300
37	2.0	2.0	2.1	51.3	4650	4850	2.0	41.9	2590	2800

For Cables of sizes or triad not listed above the product data is available on request Dimensions & Weights are representative figures and may vary

FLAGGED

Several cells in the source table are garbled and are reproduced exactly as written, marked in red: **US** (0.75/2, likely 115), **18S** (0.75/6, likely 285), **39S** (0.75/8, likely 395), **SJ0** (0.75/12, likely 530), **6'i0** (0.75/14, likely 650), **2S.2** (0.75/20, likely 25.2), **1.S** (0.75/24, likely 1.5), **1J30** (0.75/30, likely 1330), **7'i0** (1.5/4, likely 750), **1S90/1690** (1.5/19 armoured weights, inconsistent with neighbours). Also: 0.5 sq mm rows at 5 and 6 triads read insulation 0.16 where the block header says 0.26, and the 0.5/37 armoured PVC weight equals the PE weight (2130). Confirm all before publishing.

Cert. 99 100 22646 (TÜV SÜD)

BIS CM/L 6200267409 (IS 7098 Pt-1)

Compliant

Compliant

Manufactured in India

ELECTRICAL PARAMETER

AREA OF CONDUCTOR	MAX. DC RESISTANCE AT 20°C — PLAIN WIRES	MAX. DC RESISTANCE AT 20°C — METAL COATED WIRES	INSULATION RESISTANCE (PVC)	INSULATION RESISTANCE (PE/XLPE)	MUTUAL CAPACITANCE	L/R RATIO
Sq. mm	Ohm/km	Ohm/km	MΩ/Km	MΩ/Km	nF/Km	μH/Ω
0.5	36	36.7	10	1000	< 250	< 25
0.75	24.5	24.8	10	1000	< 250	< 25
1	18.1	18.2	10	1000	< 250	< 25
1.5	12.1	12.2	10	1000	< 250	< 40
2.5	7.41	7.56	10	1000	< 250	< 60

OUTSTANDING FEATURES



FLAME RETARDANT



LOW SMOKE EMISSION



LONG LIFE