

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



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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 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

DERIVED

The item master holds instrumentation cable in pair (P) and triad (T) configurations only — there are no multi-core instrumentation rows in the register, so no code on this sheet is a register lookup. Every code below is derived from the published code structure and carries no item ID until the Item Master Steward registers it. Core counts 18 and 20 do not appear in the master's core list at all.

CODE STRUCTURE

IC · IN · CORES · SIZE · TC · PE · DESIGNATION · 0300 · EN50288P7 · 0SCR

IN Instrumentation line	CORES · SIZE Zero-padded count, sq.mm x 100	TC · PE Tinned copper, PE insulated	2YY · 2YWY Unarmoured · round wire armoured	Ø300 · ØSCR 300/500 V, overall screened
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SIZE	CORES	UNARMoured · 2YY	ARMoured · 2YWY
0.5	2	IC-IN-02-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-02-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	3	IC-IN-03-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-03-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	4	IC-IN-04-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-04-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	5	IC-IN-05-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-05-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	6	IC-IN-06-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-06-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	7	IC-IN-07-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-07-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	8	IC-IN-08-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-08-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	10	IC-IN-10-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-10-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	12	IC-IN-12-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-12-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	16	IC-IN-16-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-16-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	18	IC-IN-18-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-18-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	19	IC-IN-19-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-19-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	20	IC-IN-20-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-20-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	24	IC-IN-24-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-24-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
	30	IC-IN-30-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-30-00050-TC-PE-2YWY-0300-EN50288P7-0SCR
37	IC-IN-37-00050-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-37-00050-TC-PE-2YWY-0300-EN50288P7-0SCR	
0.75	2	IC-IN-02-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-02-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	3	IC-IN-03-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-03-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	4	IC-IN-04-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-04-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	5	IC-IN-05-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-05-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	6	IC-IN-06-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-06-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	7	IC-IN-07-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-07-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	8	IC-IN-08-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-08-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	10	IC-IN-10-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-10-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	12	IC-IN-12-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-12-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	16	IC-IN-16-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-16-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	18	IC-IN-18-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-18-00075-TC-PE-2YWY-0300-EN50288P7-0SCR



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

	19	IC-IN-19-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-19-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	20	IC-IN-20-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-20-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	24	IC-IN-24-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-24-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	30	IC-IN-30-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-30-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
	37	IC-IN-37-00075-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-37-00075-TC-PE-2YWY-0300-EN50288P7-0SCR
1	2	IC-IN-02-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-02-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	3	IC-IN-03-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-03-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	4	IC-IN-04-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-04-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	5	IC-IN-05-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-05-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	6	IC-IN-06-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-06-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	7	IC-IN-07-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-07-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	8	IC-IN-08-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-08-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	10	IC-IN-10-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-10-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	12	IC-IN-12-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-12-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	16	IC-IN-16-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-16-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	18	IC-IN-18-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-18-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	19	IC-IN-19-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-19-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	20	IC-IN-20-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-20-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	24	IC-IN-24-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-24-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	30	IC-IN-30-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-30-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
	37	IC-IN-37-00100-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-37-00100-TC-PE-2YWY-0300-EN50288P7-0SCR
1.5	2	IC-IN-02-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-02-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	3	IC-IN-03-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-03-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	4	IC-IN-04-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-04-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	5	IC-IN-05-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-05-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	6	IC-IN-06-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-06-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	7	IC-IN-07-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-07-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	8	IC-IN-08-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-08-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	10	IC-IN-10-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-10-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	12	IC-IN-12-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-12-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	16	IC-IN-16-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-16-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	18	IC-IN-18-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-18-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	19	IC-IN-19-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-19-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	20	IC-IN-20-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-20-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	24	IC-IN-24-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-24-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	30	IC-IN-30-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-30-00150-TC-PE-2YWY-0300-EN50288P7-0SCR
	37	IC-IN-37-00150-TC-PE-2YY-0300-EN50288P7-0SCR	IC-IN-37-00150-TC-PE-2YWY-0300-EN50288P7-0SCR

Sizes and core 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 CORE, STR.COPPER, PVC/PE INSULATED, ALUMINIUM MYLAR TAPED 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 CORES	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	0.8	0.9	1.3	9.6	180	180	0.8	5.2	38	40
3	0.8	0.9	1.3	9.9	195	195	0.8	5.5	45	47
4	0.8	0.9	1.3	10.3	210	215	0.8	5.9	53	57
5	0.9	0.9	1.3	11.0	235	240	0.9	6.6	63	67
6	0.9	0.9	1.3	11.5	260	265	0.9	7.1	73	78
7	0.9	0.9	1.3	11.5	260	270	0.9	7.1	76	82
8	0.9	0.9	1.3	12.3	285	295	0.9	7.9	85	92
10	0.9	0.9	1.4	13.4	330	340	0.9	8.8	100	110
12	0.9	0.9	1.4	13.7	345	355	0.9	9.1	115	125
16	1.0	0.9	1.4	14.8	410	425	1.0	10.2	150	165
18	1.0	0.9	1.4	15.3	435	450	1.0	10.7	165	180
19	1.0	0.9	1.4	15.3	440	455	1.0	10.7	170	185
20	1.0	0.9	1.4	15.9	465	485	1.0	11.3	185	200
24	1.0	0.9	1.4	17.0	510	540	1.0	12.4	205	230
30	1.1	0.9	1.5	18.1	590	620	1.1	13.3	255	280
37	1.1	0.9	1.5	19.1	660	690	1.1	14.3	300	335

AREA OF CONDUCTOR 0.75 SQ MM

Min. thickness of insulation 0.26 mm

ARMoured CABLES							UNARMoured CABLES			
NO. OF CORES	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	0.8	0.9	1.3	10.1	195	200	0.8	5.7	46	48
3	0.8	0.9	1.3	10.4	210	215	0.8	6	55	58
4	0.9	0.9	1.3	11.1	240	245	0.9	6.7	69	73
5	0.9	0.9	1.3	11.6	265	270	0.9	7.2	79	84
6	0.9	0.9	1.3	12.2	290	295	0.9	7.8	92	98
7	0.9	0.9	1.3	12.2	290	300	0.9	7.8	96	105
8	0.9	0.9	1.4	13.2	330	340	0.9	8.6	110	115
10	1.0	0.9	1.4	14.5	390	400	1.0	9.9	135	145
12	1.0	0.9	1.4	14.8	410	420	1.0	10.2	155	165
16	1.0	0.9	1.4	15.8	475	490	1.0	11.2	195	215
18	1.0	0.9	1.4	16.4	510	530	1.0	11.8	220	235
19	1.0	0.9	1.4	16.4	510	530	1.0	11.8	220	245
20	1.0	0.9	1.4	17.0	550	570	1.0	12.4	240	265
24	1.1	0.9	1.5	18.7	630	650	1.1	13.9	280	305
30	1.1	0.9	1.5	19.5	700	730	1.1	14.7	340	370
37	1.1	0.9	1.5	20.6	800	840	1.1	15.8	405	445

AREA OF CONDUCTOR 1 SQ MM

Min. thickness of insulation 0.26 mm

ARMoured CABLES							UNARMoured CABLES			
NO. OF CORES	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	0.8	0.9	1.3	10.4	210	215	0.8	6	53	56
3	0.9	0.9	1.3	10.9	240	245	0.9	6.5	68	71
4	0.9	0.9	1.3	11.5	270	275	0.9	7.1	82	87
5	0.9	0.9	1.3	12.1	290	295	0.9	7.7	94	100
6	0.9	0.9	1.3	12.7	320	330	0.9	8.3	110	120
7	0.9	0.9	1.3	12.7	325	335	0.9	8.3	115	125
8	0.9	0.9	1.4	13.8	370	380	0.9	9.2	130	140
10	1	0.9	1.4	15.2	435	445	1	10.6	165	175
12	1	0.9	1.4	15.5	465	480	1	10.9	190	205
16	1	0.9	1.4	16.7	540	560	1	12.1	240	260
18	1	0.9	1.4	17.3	580	610	1	12.7	270	290
19	1	0.9	1.4	17.3	590	610	1	12.7	275	300
20	1.1	0.9	1.5	18.4	650	670	1.1	13.6	305	330
24	1.1	0.9	1.5	19.8	720	750	1.1	15	350	380
30	1.1	0.9	1.5	20.6	810	850	1.1	15.8	420	455
37	1.2	0.9	1.5	22.1	940	980	1.2	17.3	510	560

AREA OF CONDUCTOR 1.5 SQ MM

Min. thickness of insulation 0.35 mm

ARMoured CABLES							UNARMoured CABLES			
NO. OF CORES	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	0.9	0.9	1.3	11.6	260	265	0.9	7.2	74	78
3	0.9	0.9	1.3	12	285	290	0.9	7.6	92	97
4	0.9	0.9	1.4	12.9	330	335	0.9	8.3	115	120
5	0.9	0.9	1.4	13.6	360	370	0.9	9	130	140
6	1	0.9	1.4	14.6	415	425	1	10	160	170
7	1	0.9	1.4	14.6	420	435	1	10	170	180
8	1	0.9	1.4	15.8	470	485	1	11.2	190	205
10	1.1	0.9	1.5	17.6	560	580	1.1	12.8	235	255
12	1.1	0.9	1.5	18	600	630	1.1	13.2	275	295
16	1.1	0.9	1.5	19.4	710	740	1.1	14.6	350	380
18	1.1	0.9	1.5	20.2	780	810	1.1	15.4	395	425
19	1.1	0.9	1.5	20.2	790	820	1.1	114	400	438
20	1.2	0.9	1.5	21.2	850	890	1.2	16.4	445	480
24	1.2	1.25	1.6	23.9	1090	1140	1.2	18.2	510	550
30	1.3	1.25	1.6	25.1	1250	1300	1.3	19.4	630	680
37	1.3	1.25	1.7	26.9	1430	1500	1.3	21	750	820

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

FLAGGED

1.5 sq mm / 19 core, unarmoured: the source datasheet gives nominal overall diameter 114 mm and approx. weight PVC insulation 438 kg/km. Both are out of line with the surrounding rows (18 core reads 15.4 mm / 425 kg/km, 20 core reads 16.4 mm / 480 kg/km). Reproduced here exactly as written — confirm before quoting.

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	Ωm/km	Ωm/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

OUTSTANDING FEATURES



LOW EMISSION SMOKE



FLAME RETARDANT



LONG LIFE

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