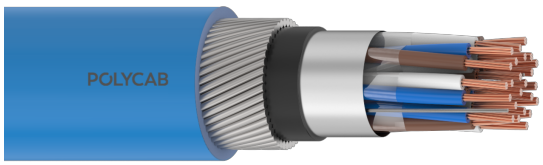
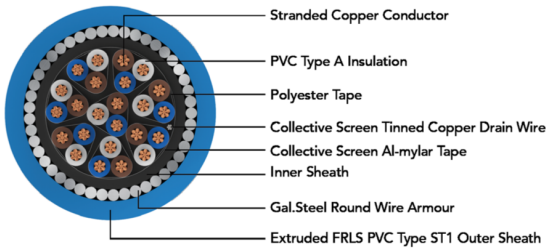
POLYCAB INSTRU 300 T (ST)
Instrumentation cable PVC/PE Insulated Overall shielded 300V





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB INSTRU 300 SINGLE & MT, Stranded copper conductor, PVC/PE insulated, Overall al-mylar shielded, armoured/unarmoured and PVC/LSZH sheathed cable confirming to BS EN 50288-7 are designed for transmission of analogue and digital signals in instrument and control systems. POLYCAB INSTRU 300 SINGLE & MT cables are used for diverse applications within industrial process for control, communication, data & voice transmission in oil, gas & petrochemical industries, cement, steel, fertilizers etc.

CHARACTERISTICS

Voltage Rating
300 V

Operation Temperature
Max.: PVC 70°C,
HRPVC 85°C,
XLPE 90°C,
LDPE 60°C.

Bending Radius
12 x Overall diameter

CONSTRUCTION

- Stranded Copper conductor as per EN 60228
- Insulated with PVC/PE as per EN 50288-7
- Collective screen Al/PET (Aluminium/Polyester tape) with drain wire of tinned Cu/ Tinned copper braiding.
- Extruded inner sheath with PVC/LSZH to EN 50290-2-22/27
- Armoured with Galvanised Steel Strip/Round as per EN 50288-7
- Sheathed with Extruded PVC/LSZH to EN 50290-2-22/27

Core Identification
White, Blue & Brown for Triad

Outer sheath colour: Blue/Black

OUTSTANDING FEATURES

- Flame retardant
- Low smoke emission
- Long life

STANDARD FOLLOWS

EN 50288-7
EN 50288-1
EN 60228
EN 50290-2-22/27

COMPLIANCE

Conductor resistance - EN 60228
Insulation resistance - EN 50288-7
L/R Ratio - EN 50288-7
Mutual capacitance - EN 50288-7

OUR ACCREDITATIONS

APPROVAL

NOTES

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

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POLYCAB
IDEAS. CONNECTED.

Weight & Dimension Data

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

Area of conductor	No.of triad	Min. thickness of insulation	ARMOURED CABLES						UNARMOURED CABLES			
			Nominal thickness of inner sheath	Diameter of G.I. armour wire	Nominal thickness of outer Sheath	Nominal Overall diameter	Approx. weight - PE insulation	Approx. weight of PVC Insulation	Nominal thickness of outer sheath	Nominal overall Diameter	Approx. weight - PE insulation	Approx. weight of PVC Insulation
Sqmm		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km
0.5	1	0.26	0.8	0.9	1.3	9.9	190	195	0.8	5.5	42	45
0.5	2	0.26	0.9	0.9	1.3	12.8	285	290	0.9	8.4	76	81
0.5	4	0.26	1.0	0.9	1.4	14.5	375	385	1.0	9.9	120	135
0.5	5	0.26	1.0	0.9	1.4	15.4	415	430	1.0	10.8	145	160
0.5	6	0.26	1.0	0.9	1.4	16.4	460	475	1.0	11.8	170	185
0.5	8	0.26	1.1	0.9	1.5	18.2	560	580	1.1	13.4	220	140
0.5	10	0.26	1.1	0.9	1.5	19.9	640	670	1.1	15.1	265	190
0.5	12	0.26	1.1	0.9	1.5	20.4	690	720	1.1	15.6	300	335
0.5	14	0.26	1.1	0.9	1.5	21.2	750	790	1.1	16.4	345	380
0.5	16	0.26	1.2	0.9	1.6	22.6	840	880	1.2	17.6	390	435
0.5	19	0.26	1.2	0.9	1.6	23.5	920	970	1.2	18.5	450	500
0.5	20	0.26	1.2	1.25	1.6	25.3	1100	1160	1.2	19.6	475	530
0.5	24	0.26	1.3	1.25	1.7	27.8	1280	1340	1.3	21.9	570	640
0.5	30	0.26	1.3	1.25	1.7	29.1	1430	1510	1.3	23.2	690	770
0.5	37	0.26	1.4	1.25	1.7	31.2	1640	1750	1.4	25.3	840	940
0.75	1	0.26	0.8	0.9	1.3	10.4	210	210	0.8	6.0	52	55
0.75	2	0.26	0.9	0.9	1.4	13.8	330	340	0.9	9.2	95	100
0.75	4	0.26	1.0	0.9	1.4	15.5	430	440	1.0	10.9	160	170
0.75	5	0.26	1.0	0.9	1.4	16.5	480	500	1.0	11.9	190	205
0.75	6	0.26	1.1	0.9	1.5	18.0	560	580	1.1	13.2	225	245
0.75	8	0.26	1.1	0.9	1.5	19.6	660	680	1.1	14.8	285	310
0.75	10	0.26	1.2	0.9	1.5	21.7	770	810	1.2	16.9	355	390
0.75	12	0.26	1.2	0.9	1.6	22.5	850	890	1.2	17.5	410	450
0.75	14	0.26	1.2	1.25	1.6	24.1	1050	1100	1.2	18.4	470	510
0.75	16	0.26	1.2	1.25	1.6	25.1	1150	1200	1.2	19.4	530	580
0.75	19	0.26	1.3	1.25	1.6	26.4	1270	1330	1.3	20.7	620	680
0.75	20	0.26	1.3	1.25	1.7	27.8	1360	1420	1.3	21.9	650	720
0.75	24	0.26	1.4	1.25	1.7	30.4	1560	1640	1.4	24.5	780	860
0.75	30	0.26	1.4	1.25	1.8	32.0	1780	1880	1.4	25.9	950	1040
0.75	37	0.26	1.5	1.25	1.8	34.3	2060	2180	1.5	28.2	1150	1270
1.0	1	0.26	0.9	0.9	1.3	10.9	235	240	0.9	6.5	64	68

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Area of conductor	No.of triad	Min. thickness of insulation	ARMOURED CABLES						UNARMOURED CABLES			
			Nominal thickness of inner sheath	Diameter of G.I. armour wire	Nominal thickness of outer Sheath	Nominal Overall diameter	Approx. weight - PE insulation	Approx. weight of PVC Insulation	Nominal thickness of outer sheath	Nominal overall Diameter	Approx. weight - PE insulation	Approx. weight of PVC Insulation
Sqmm		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km
1.0	2	0.26	1.0	0.9	1.4	14.6	370	380	1.0	10.0	120	125
1.0	4	0.26	1.0	0.9	1.4	16.3	485	500	1.0	11.7	195	205
1.0	5	0.26	1.0	0.9	1.5	17.6	560	570	1.0	12.8	230	250
1.0	6	0.26	1.1	0.9	1.5	18.9	630	650	1.1	14.1	280	300
1.0	8	0.26	1.1	0.9	1.5	20.7	750	780	1.1	15.9	355	385
1.0	10	0.26	1.2	0.9	1.6	23.2	900	940	1.2	18.2	440	480
1.0	12	0.26	1.2	1.25	1.6	24.6	1110	1150	1.2	18.9	510	560
1.0	14	0.26	1.3	1.25	1.6	25.7	1230	1280	1.3	20.0	590	640
1.0	16	0.26	1.3	1.25	1.7	27.1	1350	1410	1.3	21.2	670	730
1.0	19	0.26	1.3	1.25	1.7	28.2	1500	1560	1.3	22.3	780	840
1.0	20	0.26	1.4	1.25	1.7	29.7	1590	1660	1.4	23.8	830	900
1.0	24	0.26	1.4	1.25	1.8	32.5	1830	1920	1.4	26.4	980	1070
1.0	30	0.26	1.5	1.25	1.8	34.3	2110	2220	1.5	28.2	1200	1310
1.0	37	0.26	1.6	1.25	1.9	37.0	2470	2600	1.6	30.7	1470	1600
1.5	1	0.35	0.9	0.9	1.3	12.0	280	285	0.9	7.6	86	91
1.5	2	0.35	1.0	0.9	1.4	16.5	455	465	1.0	11.9	160	170
1.5	4	0.35	1.1	0.9	1.5	18.9	630	650	1.1	14.1	280	300
1.5	5	0.35	1.1	0.9	1.5	20.3	720	750	1.1	15.5	335	365
1.5	6	0.35	1.1	0.9	1.6	22.1	840	870	1.1	17.1	400	435
1.5	8	0.35	1.3	1.25	1.6	25.2	1150	1190	1.3	19.5	520	570
1.5	10	0.35	1.3	1.25	1.7	28.1	1350	1410	1.3	22.2	640	700
1.5	12	0.35	1.4	1.25	1.7	29.1	1500	1560	1.4	23.2	760	820
1.5	14	0.35	1.4	1.25	1.7	30.3	1640	1720	1.4	24.4	870	940
1.5	16	0.35	1.5	1.25	1.8	32.1	1830	1910	1.5	26.0	990	1080
1.5	19	0.35	1.5	1.25	1.8	33.5	2030	2140	1.5	27.4	1150	1250
1.5	20	0.35	1.5	1.25	1.8	35.1	2140	2250	1.5	29.0	1210	1320
1.5	24	0.35	1.7	1.6	2.0	39.8	2760	2890	1.7	32.6	1470	1600
1.5	30	0.35	1.7	1.6	2.0	41.8	3140	3310	1.7	34.6	1780	1950
1.5	37	0.35	1.8	1.6	2.1	45.1	3670	3880	1.8	37.7	2170	2380

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

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Electrical Parameter

Area of Conductor	Max. DC resistance of conductor at 20°C Plain wires	Max. DC resistance of conductor at 20°C Metal coated wires	Insulation resistance (PVC)	Insulation resistance (PE/XLPE)	Mutual capacitance	Inductance to resistance ratio(L/R)
Sqmm	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