

Electronic Control Cables

Instrumentation Cables

RE-2X(St)H-TP



images are illustrative purpose only

Application

- At instrumentation control and data processes, analog and digital signal transmission.
- In chemical and petrochemical industry.
- Powerplants.
- Outdoor and indoor places, dry, moist and wet places.
- Gas stations, water transportation systems.

Cable Construction

- 1-Conductor : Stranded electrolytic copper conductor (Class 2) (IEC 60228, EN 60228, DIN VDE 0295)
- 2-Insulation : XLPE (BS EN 50290-2, VDE 0207 Y11), Black, White; Number coded (BS 5308-2)
- 3-Stranding : Insulations are stranding into pairs, pairs are stranding into layers
- 4-Wrapping : Polyester tape
- 5-Ovrl. Screen : Tinned copper earthing wire, Al/PET tape
- 6-Outer Jacket : UV resistant halogen-free outer jacket

Technical Characteristics

Cross Section	Conductor Resistance Ω/km (20 °C)	Insulation Resistance M Ω/km (20 °C)	Mutual Capacitance nF/km	Operating Voltage V (DC)	Test Voltage V (DC. 1 minute)
0.50 mm ²	36.0	5000	160	300	2000
0.75 mm ²	24.5	5000	160	300	2000
1.00 mm ²	18.1	5000	160	300	2000
1.50 mm ²	12.1	5000	170	300	2000
2.50 mm ²	7.41	5000	170	500	2500

Mechanical Characteristics

Bending Radius	Temperature Range Operating
7.5xD mm	-30°C ~ +90°C

Standards

Smoke Density Test	Corrosive Gas Test	Halogen-free Test	Flame Propagation Test	Flame Retardancy Test
IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, BS EN 50267-2-1	IEC 60332-3-24, VDE 0482-332-3-31, BS EN 60332-3-24	IEC 60332-1-2, VDE 0482-332-1-2, BS EN 60332-1-2

Notes

Reference Standard: EN 50288-7

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Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.561.02.aX11.0.0.3 0.0050.0001-EN	1	0.50	5.3	14.7	36	500/1000
3.561.02.aX11.0.0.3 0.0050.0002-EN	2	0.50	7.4	24.5	60	500/1000
3.561.02.aX11.0.0.3 0.0050.0004-EN	4	0.50	8.6	44.2	93	500/1000
3.561.02.aX11.0.0.3 0.0050.0006-EN	6	0.50	10.1	63.8	125	500/1000
3.561.02.aX11.0.0.3 0.0050.0008-EN	8	0.50	11.0	83.5	157	500/1000
3.561.02.aX11.0.0.3 0.0050.0010-EN	10	0.50	12.7	103.2	191	500/1000
3.561.02.aX11.0.0.3 0.0050.0012-EN	12	0.50	13.1	122.9	217	500/1000
3.561.02.aX11.0.0.3 0.0050.0016-EN	16	0.50	14.6	162.2	279	500/1000
3.561.02.aX11.0.0.3 0.0050.0020-EN	20	0.50	16.4	201.5	344	500/1000
3.561.02.aX11.0.0.3 0.0050.0024-EN	24	0.50	18.0	240.9	403	500/1000
3.561.02.aX11.0.0.3 0.0075.0001-EN	1	0.75	5.9	19.8	46	500/1000
3.561.02.aX11.0.0.3 0.0075.0002-EN	2	0.75	8.3	34.7	78	500/1000
3.561.02.aX11.0.0.3 0.0075.0004-EN	4	0.75	9.4	64.7	118	500/1000
3.561.02.aX11.0.0.3 0.0075.0006-EN	6	0.75	11.2	94.6	166	500/1000
3.561.02.aX11.0.0.3 0.0075.0008-EN	8	0.75	12.1	124.5	206	500/1000
3.561.02.aX11.0.0.3 0.0075.0010-EN	10	0.75	14.2	154.4	258	500/1000
3.561.02.aX11.0.0.3 0.0075.0012-EN	12	0.75	14.7	184.4	295	500/1000
3.561.02.aX11.0.0.3 0.0075.0016-EN	16	0.75	16.4	244.2	381	500/1000
3.561.02.aX11.0.0.3 0.0075.0020-EN	20	0.75	18.1	304.1	461	500/1000
3.561.02.aX11.0.0.3 0.0075.0024-EN	24	0.75	20.2	363.9	552	500/1000
3.561.02.aX11.0.0.3 0.0100.0001-EN	1	1.00	6.3	25.0	54	500/1000
3.561.02.aX11.0.0.3 0.0100.0002-EN	2	1.00	8.9	45.2	92	500/1000
3.561.02.aX11.0.0.3 0.0100.0004-EN	4	1.00	10.2	85.7	144	500/1000
3.561.02.aX11.0.0.3 0.0100.0006-EN	6	1.00	12.2	126.1	205	500/1000
3.561.02.aX11.0.0.3 0.0100.0008-EN	8	1.00	13.2	166.5	256	500/1000
3.561.02.aX11.0.0.3 0.0100.0010-EN	10	1.00	15.5	206.9	321	500/1000
3.561.02.aX11.0.0.3 0.0100.0012-EN	12	1.00	16.0	247.3	369	500/1000
3.561.02.aX11.0.0.3 0.0100.0016-EN	16	1.00	17.9	328.1	478	500/1000
3.561.02.aX11.0.0.3 0.0100.0020-EN	20	1.00	20.1	409.0	592	500/1000
3.561.02.aX11.0.0.3 0.0100.0024-EN	24	1.00	22.4	489.8	709	500/1000
3.561.02.aX11.0.0.3 0.0150.0001-EN	1	1.50	7.1	33.8	67	500/1000
3.561.02.aX11.0.0.3 0.0150.0002-EN	2	1.50	10.2	62.8	119	500/1000
3.561.02.aX11.0.0.3 0.0150.0004-EN	4	1.50	12.0	120.8	199	500/1000
3.561.02.aX11.0.0.3 0.0150.0006-EN	6	1.50	14.4	178.7	284	500/1000
3.561.02.aX11.0.0.3 0.0150.0008-EN	8	1.50	15.6	236.7	356	500/1000
3.561.02.aX11.0.0.3 0.0150.0010-EN	10	1.50	18.4	294.7	447	500/1000
3.561.02.aX11.0.0.3 0.0150.0012-EN	12	1.50	19.2	352.6	525	500/1000
3.561.02.aX11.0.0.3 0.0150.0016-EN	16	1.50	21.2	468.6	669	500/1000
3.561.02.aX11.0.0.3 0.0150.0020-EN	20	1.50	23.8	584.5	828	500/1000
3.561.02.aX11.0.0.3 0.0150.0024-EN	24	1.50	26.5	700.5	991	500/1000
3.561.02.bX11.0.0.3 0.0250.0001-EN	1	2.50	9.1	53.9	105	500/1000
3.561.02.bX11.0.0.3 0.0250.0002-EN	2	2.50	13.4	102.9	192	500/1000
3.561.02.bX11.0.0.3 0.0250.0004-EN	4	2.50	15.7	201.1	326	500/1000
3.561.02.bX11.0.0.3 0.0250.0006-EN	6	2.50	19.2	299.2	479	500/1000
3.561.02.bX11.0.0.3 0.0250.0008-EN	8	2.50	20.8	397.3	604	500/1000
3.561.02.bX11.0.0.3 0.0250.0010-EN	10	2.50	24.9	495.4	771	500/1000
3.561.02.bX11.0.0.3 0.0250.0012-EN	12	2.50	25.7	593.5	891	500/1000
3.561.02.bX11.0.0.3 0.0250.0016-EN	16	2.50	28.7	789.8	1156	500/1000
3.561.02.bX11.0.0.3 0.0250.0020-EN	20	2.50	32.2	986.0	1429	500/1000
3.561.02.bX11.0.0.3 0.0250.0024-EN	24	2.50	36.2	1182.2	1727	500/1000