

Electronic Control Cables Instrumentation Cables RE-2Y(S^t)H-TP

RoHS REACH 



Application

- At instrumentation control and data processes, analog and digital signal transmission.
- In chemical and petrochemical industry.
- Powerplants.
- In indoor environments intensely populated by people, where there is electromagnetic interference.
- 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 : Polyethylene (BS EN 50290-2, VDE 0207 Y11), Black, White; Number coded (BS 5308-2)
- 3 - Stranding : Pairs are stranded in layers.
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper earthing wire, Al/PET tape
- 6 - Outer Jacket: UV resistant halogen-free outer jacket. RAL 9004 (Black)

Technical Characteristics

Cross Section	Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (20 °C)	Mutual Capacitance pF/m	Inductance/ Resistance Ratio nH/Ω	Current Carrying Capacity A	Operating Voltage V DC	Test Voltage V (DC, 1 minute) Pair - Pair	Test Voltage V (DC, 1 minute) Pair-Screen
0.50 mm ²	36	5000	65	25	6	300/500	2000	2000
075 mm ²	24.5	5000	65	25	13	300/500	2000	2000
1.00 mm ²	18.1	5000	65	25	16	300/500	2000	2000
1.30 mm ²	13.9	5000	75	40	18	300/500	2000	2000
1.5 mm ²	12.1	5000	75	40	20	300/500	2000	2000
2.5 mm ²	7.41	5000	115	60	25	300/500	2000	2000

Mechanical Characteristics

Bending Radius	Temperature Range Operating
7.5xD mm	-30°C~+70°C

Standards

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

Notes

Electromagnetic compatibility (EMC)

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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)
3.562.1.1.3.0050.0.0001	1	0.5	5.6	14	44	100/500/1000
3.562.1.1.3.0050.0.0002	2	0.5	7.9	24	68	100/500/1000
3.562.1.1.3.0050.0.0004	4	0.5	9.4	43	98	100/500/1000
3.562.1.1.3.0050.0.0008	8	0.5	12.4	81	175	100/500/1000
3.562.1.1.3.0050.0.0010	10	0.5	14.0	100	214	100/500/1000
3.562.1.1.3.0050.0.0012	12	0.5	14.3	118	242	100/500/1000
3.562.1.1.3.0050.0.0016	16	0.5	16.4	156	319	100/500/1000
3.562.1.1.3.0050.0.0020	20	0.5	18.3	194	380	100/500/1000
3.562.1.1.3.0050.0.0024	24	0.5	19.9	232	451	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.1.1.3.0075.0.0001	1	0.75	6.0	19	49	100/500/1000
3.562.1.1.3.0075.0.0002	2	0.75	9.0	34	86	100/500/1000
3.562.1.1.3.0075.0.0004	4	0.75	10.0	63	123	100/500/1000
3.562.1.1.3.0075.0.0008	8	0.75	13.6	120	225	100/500/1000
3.562.1.1.3.0070.0.0010	10	0.75	15.3	149	272	100/500/1000
3.562.1.1.3.0075.0.0012	12	0.75	15.8	178	310	100/500/1000
3.562.1.1.3.0075.0.0016	16	0.75	18.0	235	410	100/500/1000
3.562.1.1.3.0075.0.0020	20	0.75	20.2	293	500	100/500/1000
3.562.1.1.3.0075.0.0024	24	0.75	22.0	350	600	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.1.1.3.0100.0.0001	1	1	6.4	24	57	100/500/1000
3.562.1.1.3.0100.0.0002	2	1	9.2	44	98	100/500/1000
3.562.1.1.3.0100.0.0004	4	1	11.0	83	155	100/500/1000
3.562.1.1.3.0100.0.0008	8	1	14.7	160	275	100/500/1000
3.562.1.1.3.0100.0.0010	10	1	16.8	199	345	100/500/1000
3.562.1.1.3.0100.0.0012	12	1	17.0	238	394	100/500/1000
3.562.1.1.3.0100.0.0016	16	1	19.9	316	530	100/500/1000
3.562.1.1.3.0100.0.0020	20	1	22.0	393	635	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.1.1.3.0130.0.0001	1	1.3	6.8	30	88	100/500/1000
3.562.1.1.3.0130.0.0002	2	1.3	10.0	55	119	100/500/1000
3.562.1.1.3.0130.0.0004	4	1.3	11.8	106	184	100/500/1000
3.562.1.1.3.0130.0.0008	8	1.3	15.8	207	335	100/500/1000
3.562.1.1.3.0130.0.0010	10	1.3	18.0	257	410	100/500/1000
3.562.1.1.3.0130.0.0012	12	1.3	18.6	308	476	100/500/1000
3.562.1.1.3.0130.0.0016	16	1.3	21.3	408	630	100/500/1000
3.562.1.1.3.0130.0.0020	20	1.3	24.8	509	775	100/500/1000

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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)
3.562.1.1.3.0150.0.0001	1	1.5	7.2	33	69	100/500/1000
3.562.1.1.3.0150.0.0002	2	1.5	10.5	62	130	100/500/1000
3.562.1.1.3.0150.0.0004	4	1.5	12.3	119	210	100/500/1000
3.562.1.1.3.0150.0.0008	8	1.5	17.0	232	380	100/500/1000
3.562.1.1.3.0150.0.0010	10	1.5	19.2	289	470	100/500/1000
3.562.1.1.3.0150.0.0012	12	1.5	20.0	346	545	100/500/1000
3.562.1.1.3.0150.0.0016	16	1.5	22.8	459	710	100/500/1000
3.562.1.1.3.0150.0.0020	20	1.5	27.2	573	880	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.1.1.3.0250.0.0001	1	2.5	8.9	52	130	100/500/1000
3.562.1.1.3.0250.0.0002	2	2.5	11.9	99	338	100/500/1000
3.562.1.1.3.0250.0.0004	4	2.5	15.3	194	617	100/500/1000
3.562.1.1.3.0250.0.0008	8	2.5	19.5	382	765	100/500/1000
3.562.1.1.3.0250.0.0010	10	2.5	21.5	476	901	100/500/1000
3.562.1.1.3.0250.0.0012	12	2.5	23.6	571	1170	100/500/1000
3.562.1.1.3.0250.0.0016	16	2.5	27.2	759	1435	100/500/1000
3.562.1.1.3.0250.0.0020	20	2.5	30.2	948	1731	100/500/1000