

Electronic Control Cables
Instrumentation Cables
RE-2Y(St)Yv-TP

RoHS REACH CE



Application

- At instrumentation control and data processes, analog and digital signal transmission.
- In chemical and petrochemical industry.
- Powerplants.
- Gas stations, water transportation systems.
- Suitable for both indoor and outdoor (Direct burial.) usage.

Cable Construction

- 1 - Conductor : Stranded electrolytic copper conductor (Class 2) (IEC 60228, EN 60228, DIN VDE 0295) Polyethylene
- 2 - Insulation : (BS EN 50290-2, VDE 0207 YII), Black, White; Number coded (BS 5308-2)
- Communication Core : 0.5 mm² (7x0.30 mm) RAL 2008 (Orange) polyethylene insulation.
- 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 reinforced PVC outer jacket. RAL 9005 (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	75	60	25	300/500	2000	2000

Mechanical Characteristics

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

Notes
Electromagnetic compatibility (EMC)

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	Pair Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
	1	0.5	6.3	14	52	100/500/1000
	2	0.5	9.8	24	91	100/500/1000
	4	0.5	11.4	44	131	100/500/1000
	8	0.5	14.4	82	205	100/500/1000
	10	0.5	16.8	102	248	100/500/1000
	12	0.5	17.7	121	294	100/500/1000
	16	0.5	19.7	160	270	100/500/1000
	20	0.5	21.9	198	439	100/500/1000
	24	0.5	24.2	237	510	100/500/1000
	Pair Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
	1	0.75	6.6	19	58	100/500/1000
	2	0.75	10.6	35	107	100/500/1000
	4	0.75	12.3	64	159	100/500/1000
	8	0.75	15.9	123	264	100/500/1000
	10	0.75	18.8	152	331	100/500/1000
	12	0.75	19.4	181	371	100/500/1000
	16	0.75	21.4	240	460	100/500/1000
	20	0.75	23.8	299	551	100/500/1000
	24	0.75	26.4	357	644	100/500/1000
	Pair Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
	1	1	7.3	25	71	100/500/1000
	2	1	11.6	44	129	100/500/1000
	4	1	13.3	84	188	100/500/1000
	8	1	17.4	163	323	100/500/1000
	10	1	20.3	203	394	100/500/1000
	12	1	21	243	451	100/500/1000
	16	1	23.3	322	563	100/500/1000
	20	1	26.2	401	691	100/500/1000