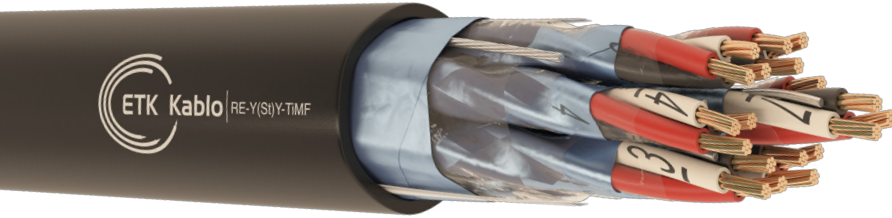


# Electronic Control Cables Instrumentation Cables

## RE-Y(S)Y-PiMF / TiMF

RoHS REACH 



### 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 : PVC (BS EN 50290-2, VDE 0207 Y11), Black, White; Number coded (BS 5308-2)
- 3 - 1st Stranding: Pairs or triples stranded in layers.
- 4 - 1st Wrapping: Polyester tape
- 5 - Individual : Tinned copper earthing wire, Al/PET tape Screen
- 6 - 2nd Stranding: Screened pairs are stranded in layers.
- 7 - 2nd Wrapping: Polyester tape
- 8 - Screen : Tinned copper earthing wire, Al/PET tape
- 9 - Outer Jacket: UV resistant PVC outer jacket. RAL 9005 (Black)

### Technical Characteristics

Cross Section	Conductor Resistance $\Omega/\text{km}$ (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (20 °C)	Mutual Capacitance $\text{pF/m}$	Inductance/ Resistance Ratio $\text{nH}/\Omega$	Current Carrying Capacity $\text{A}$	Operating Voltage $\text{V DC}$	Test Voltage $\text{V (DC)}$ 1 minute) Pair - Pair	Test Voltage $\text{V (DC)}$ 1 minute) Pair-Screen
0.50 mm <sup>2</sup>	36	100	160	25	6	300/500	2000	2000
0.75 mm <sup>2</sup>	24.5	100	160	25	13	300/500	2000	2000
1.00 mm <sup>2</sup>	18.1	100	160	25	16	300/500	2000	2000
1.30 mm <sup>2</sup>	13.9	100	170	40	18	300/500	2000	2000
1.5 mm <sup>2</sup>	12.1	100	170	40	20	300/500	2000	2000
2.5 mm <sup>2</sup>	7.41	100	170	60	25	300/500	2000	2000

### Mechanical Characteristics

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

#### Notes

Electromagnetic compatibility (EMC)

## RE-Y(St)Y-PiMF

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.2.2.2.0050.0.0002	2	0.5	9.1	33	90	100/500/1000
3.562.2.2.2.0050.0.0004	4	0.5	10.6	61	130	100/500/1000
3.562.2.2.2.0050.0.0008	8	0.5	14.1	117	259	100/500/1000
3.562.2.2.2.0050.0.0010	10	0.5	16.7	145	326	100/500/1000
3.562.2.2.2.0050.0.0012	12	0.5	17.2	173	373	100/500/1000
3.562.2.2.2.0050.0.0016	16	0.5	19.3	229	486	100/500/1000
3.562.2.2.2.0050.0.0020	20	0.5	21.4	284	586	100/500/1000
3.562.2.2.2.0050.0.0024	24	0.5	24.0	340	702	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.2.2.2.0075.0.0002	2	0.75	9.8	43	110	100/500/1000
3.562.2.2.2.0075.0.0004	4	0.75	11.6	81	173	100/500/1000
3.562.2.2.2.0075.0.0008	8	0.75	15.2	156	310	100/500/1000
3.562.2.2.2.0075.0.0010	10	0.75	18.1	194	390	100/500/1000
3.562.2.2.2.0075.0.0012	12	0.75	18.7	232	449	100/500/1000
3.562.2.2.2.0075.0.0016	16	0.75	21.1	307	590	100/500/1000
3.562.2.2.2.0075.0.0020	20	0.75	23.5	383	721	100/500/1000
3.562.2.2.2.0075.0.0024	24	0.75	26.3	459	863	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.2.2.2.0100.0.0002	2	1	10.5	53	125	100/500/1000
3.562.2.2.2.0100.0.0004	4	1	12.5	101	203	100/500/1000
3.562.2.2.2.0100.0.0008	8	1	16.7	197	395	100/500/1000
3.562.2.2.2.0100.0.0010	10	1	19.7	244	469	100/500/1000
3.562.2.2.2.0100.0.0012	12	1	20.4	292	542	100/500/1000
3.562.2.2.2.0100.0.0016	16	1	22.8	388	711	100/500/1000
3.562.2.2.2.0100.0.0020	20	1	25.6	484	870	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.2.2.2.0130.0.0002	2	1.3	11.5	64	153	100/500/1000
3.562.2.2.2.0130.0.0004	4	1.3	13.0	124	234	100/500/1000
3.562.2.2.2.0130.0.0008	8	1.3	17.8	243	435	100/500/1000
3.562.2.2.2.0130.0.0010	10	1.3	21.1	302	546	100/500/1000
3.562.2.2.2.0130.0.0012	12	1.3	22.0	362	642	100/500/1000
3.562.2.2.2.0130.0.0016	16	1.3	24.7	481	844	100/500/1000
3.562.2.2.2.0130.0.0020	20	1.3	27.6	600	1030	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.2.2.2.0150.0.0002	2	1.5	11.8	71	165	100/500/1000
3.562.2.2.2.0150.0.0004	4	1.5	14.1	137	262	100/500/1000
3.562.2.2.2.0150.0.0008	8	1.5	18.4	268	476	100/500/1000
3.562.2.2.2.0150.0.0010	10	1.5	22.0	334	608	100/500/1000
3.562.2.2.2.0150.0.0012	12	1.5	22.8	400	704	100/500/1000
3.562.2.2.2.0150.0.0016	16	1.5	25.6	532	925	100/500/1000
3.562.2.2.2.0150.0.0020	20	1.5	28.7	663	1132	100/500/1000

## RE-Y(Sf)Y-TIMF

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.3.2.2.0050.0.0002	2	0.5	10.1	42	125	100/500/1000
3.562.3.2.2.0050.0.0004	4	0.5	12.0	80	203	100/500/1000
3.562.3.2.2.0050.0.0008	8	0.5	15.6	155	329	100/500/1000
3.562.3.2.2.0050.0.0010	10	0.5	18.6	192	414	100/500/1000
3.562.3.2.2.0050.0.0012	12	0.5	19.2	229	477	100/500/1000
3.562.3.2.2.0050.0.0016	16	0.5	21.5	304	625	100/500/1000
3.562.3.2.2.0050.0.0020	20	0.5	24.1	379	768	100/500/1000
3.562.3.2.2.0050.0.0024	24	0.5	27.5	454	932	100/500/1000

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.3.2.2.0075.0.0002	2	0.75	10.8	57	145	100/500/1000
3.562.3.2.2.0075.0.0004	4	0.75	12.8	109	238	100/500/1000
3.562.3.2.2.0075.0.0008	8	0.75	17.1	214	411	100/500/1000
3.562.3.2.2.0075.0.0010	10	0.75	20.3	266	516	100/500/1000
3.562.3.2.2.0075.0.0012	12	0.75	21.0	318	597	100/500/1000
3.562.3.2.2.0075.0.0016	16	0.75	23.5	422	787	100/500/1000
3.562.3.2.2.0075.0.0020	20	0.75	26.3	527	960	100/500/1000
3.562.3.2.2.0075.0.0024	24	0.75	29.5	631	1150	100/500/1000

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.3.2.2.0100.0.0002	2	1	11.80	72	176	100/500/1000
3.562.3.2.2.0100.0.0004	4	1	13.80	140	269	100/500/1000
3.562.3.2.2.0100.0.0008	8	1	18.30	274	495	100/500/1000
3.562.3.2.2.0100.0.0010	10	1	22.00	341	630	100/500/1000
3.562.3.2.2.0100.0.0012	12	1	22.80	409	730	100/500/1000
3.562.3.2.2.0100.0.0016	16	1	25.50	543	955	100/500/1000
3.562.3.2.2.0100.0.0020	20	1	28.50	678	1170	100/500/1000

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.3.2.2.0130.0.0002	2	1.3	12.7	90	205	100/500/1000
3.562.3.2.2.0130.0.0004	4	1.3	15.1	174	330	100/500/1000
3.562.3.2.2.0130.0.0008	8	1.3	20.1	344	620	100/500/1000
3.562.3.2.2.0130.0.0010	10	1.3	24.0	428	770	100/500/1000
3.562.3.2.2.0130.0.0012	12	1.3	25.0	513	900	100/500/1000
3.562.3.2.2.0130.0.0016	16	1.3	28.0	682	1195	100/500/1000
3.562.3.2.2.0130.0.0020	20	1.3	31.2	852	1470	100/500/1000

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.562.3.2.2.0150.0.0002	2	1.5	13.1	99	224	100/500/1000
3.562.3.2.2.0150.0.0004	4	1.5	15.5	193	370	100/500/1000
3.562.3.2.2.0150.0.0008	8	1.5	20.8	382	670	100/500/1000
3.562.3.2.2.0150.0.0010	10	1.5	24.8	476	835	100/500/1000
3.562.3.2.2.0150.0.0012	12	1.5	25.7	570	980	100/500/1000
3.562.3.2.2.0150.0.0016	16	1.5	28.8	759	1275	100/500/1000
3.562.3.2.2.0150.0.0020	20	1.5	32.2	947	1549	100/500/1000