

RE-Y(St)Y TIMF

CU/PVC/ISCR/OSCR/PVC



Flame Retardant and UV Resistant / Instrumentation Control Cable

Construction

Conductor:	Plain annealed stranded copper wires (IEC/BS/E 60228, VDE 0295 Class 2)
Insulation:	PVC (BS/EN 50290-2, VDE 0207 Y11)
Colour code:	Pair: Black / white , numbered ; Triple: Black/white/red, numbered
Lay-up	Pairs/Triples are stranded in layers
Individual Screen	PES TAPE; TINNED COPPER DRAIN WIRE; AL-PES TAPE
Overall Shielding	24 μ m aluminum / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm ²
Outer Sheath:	UV resistant, Flame retardant PVC (BS/EN 50290-2, VDE 0207 YM1, thickness VDE 0816-2), Black or Blue (RAL 5015) [other colors upon request]
sheath colour:	Blue Ral 5005

APPLICATION

Cable with protective screen against electromagnetic impacts, for reliable and quick (up to 200 kB/s) transmission of analogue and digital signals, suitable for fixed and mobile installations in process control and data processing systems, mostly in chemical and petrochemical industrial plants and electric power plants. Low values of signal attenuation and low mutual capacitance enable large-distance signal transmission. Laid in dry and damp premises, also outdoor, in air or ground. Not intended for supply purposes



NOTES

RE Instrumentation Cable

Fl*: Flame retardant outer sheath

Yv*: Reinforced sheath version available on request

Ral 5015 blue sheath*: At ex-proof connections in explosive and in flammable environments, intrinsically safe

Ral 9005 black sheath*: Places where UV resistance is required

Ral 7032 grey sheath*: Inside of buildings

Technical data

Conductor Resistance class2(Max)	Insulation Resistance (Min)	Insulation Thickness (Nom)	MUTUAL CAPACITY (Max)	Temperature Range	Flame Propagation
mm ²	Ω /km	M Ω xKm	mm ²	pF/m	
0.5	36		0.5	-30°C~+70°C	IEC 60332-3-24 VDE 0482-332-3-2 EN 60332-3-24 BS EN 60332-3-24
0.75	24.5		0.6	(FIXED LAYING)	
1.0	18.1	100	0.6	250	
1.5	12.1		0.6		
2.5	7.41		0.7		

L/R(Ratio) (Max)	Current Load(25°C)	Operating Voltage	Test Voltage	Bending Radius
mm ²	μ H/ Ω	mm ²	A	
0.5	25	0.5	6	300/500V Cr./Cr.=2000 V Cr./Scr.=2000 V 7,5 X Cable Ø
0.75	25	0.75	13	
1.0	25	1.0	16	
1.5	40	1.5	20	
2.5	60	2.5	25	

Temperature Range Fixed -40 °C to+70 °C ; During Installation -5 °C -+50 °C

Flame Test IEC/EN/BS/DIN 60332-1-2 (VDE 0482-332-1-2)

Design Standards

IEC 60092-376
EN 50288-7
DIN VDE 819-7

RE-Y(St)Y TIMF (0.5-2.5)

CU/PVC/ISCR/OSCR/PVC

Code No.	No. of cores N x mm ²	External diameter approx. mm	Insulation thickness nominal mm	Cable weight approx. kg/km	Packing*
Cross Section :0.5					
3815	1	7.1	0.6	65	CUT
3825	2	11.6	0.6	125	CUT
3835	3	12.3	0.6	160	CUT
3845	4	13.7	0.6	205	CUT
3855	5	15.0	0.6	250	CUT
3865	6	16.6	0.6	295	CUT
3875	7	16.6	0.6	330	CUT
38105	10	21.4	0.6	465	CUT
38125	12	22.1	0.6	540	CUT
38165	16	24.8	0.6	700	CUT
38205	20	27.9	0.6	870	CUT
38245	24	31.2	0.6	1040	CUT
38305	30	33.3	0.6	1275	CUT
Cross Section :0.75					
3817	1	7.5	0.6	75	CUT
3827	2	12.4	0.6	145	CUT
3837	3	13.4	0.6	200	CUT
3847	4	14.7	0.6	250	CUT
3857	5	16.4	0.6	310	CUT
3867	6	17.9	0.6	360	CUT
3877	7	17.9	0.6	405	CUT
38107	10	23.2	0.6	580	CUT
38127	12	24.1	0.6	675	CUT
38167	16	27.0	0.6	880	CUT
38207	20	30.4	0.6	1090	CUT
38247	24	33.9	0.6	1305	CUT
38307	30	36.2	0.6	1600	CUT
Cross Section :1.0					
38110	1	7.9	0.6	90	CUT
38210	2	13.4	0.6	175	CUT
38310	3	14.2	0.6	230	CUT
38410	4	15.6	0.6	290	CUT
38510	5	17.3	0.6	360	CUT
38610	6	19.0	0.6	420	CUT
38710	7	19.0	0.6	475	CUT
381010	10	24.7	0.6	680	CUT
381210	12	25.6	0.6	795	CUT
381610	16	28.7	0.6	1040	CUT
382010	20	32.3	0.6	1290	CUT
382410	24	36.3	0.6	1550	CUT
383010	30	38.5	0.6	1890	CUT

Code No.	No. of cores N x mm ²	External diameter approx. mm	Insulation thickness nominal mm	Cable weight approx. kg/km	Packing*
Cross Section :1.5					
38115	1	8.6	0.6	110	CUT
38215	2	14.6	0.6	215	CUT
38315	3	15.5	0.6	295	CUT
38415	4	17.3	0.6	380	CUT
38515	5	19.0	0.6	460	CUT
38615	6	21.0	0.6	550	CUT
38715	7	21.0	0.6	620	CUT
381015	10	27.4	0.6	895	CUT
381215	12	28.3	0.6	1045	CUT
381615	16	31.8	0.6	1365	CUT
382015	20	36.0	0.6	1705	CUT
382415	24	40.2	0.6	2040	CUT
383015	30	42.8	0.6	2510	CUT
Cross Section :2.5					
38125	1	10.1	0.7	155	CUT
38225	2	17.3	0.7	310	CUT
38325	3	18.5	0.7	420	CUT
38425	4	20.5	0.7	550	CUT
38525	5	22.8	0.7	675	CUT
38625	6	25.0	0.7	800	CUT
38725	7	25.0	0.7	905	CUT
381025	10	32.8	0.7	1310	CUT
381225	12	34.0	0.7	1535	CUT
381625	16	38.3	0.7	2025	CUT
382025	20	43.1	0.7	2515	CUT
382425	24	48.3	0.7	3025	CUT
383025	30	51.5	0.7	3720	CUT

*) Packing: CUT = cable in different lengths on drum or reel, possible cutting at required length`