RE-Y(St)YRY Multi Triple

CU/PVC /OSCR/SWA/PVC

Flame Retardant and UV Resistant / Instrumentation Cable

Construction

Conductor:	Plain annealed stranded copper wires (IEC/BS/EN 60228, VDE 0295 Class 2)
Insulation:	PVC (BS/EN 50290-2, VDE 0207 YI1)
Colour code:	Pair: Black / white , numbered ; Triple: Black/white/Blue, numbered
Lay-up	Pairs/Triples are stranded in layers
Separator	Polyester tape
Overall Shielding	24 µm aluminum / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm²
Inner Sheath	EN 50290-2-22 PVC Compound
Armour	Galvanized Round Steel Wires
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 upor 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	MΩxKm	mm	mm^2	pF/m	- 30°C~+70°C (FIXED LAYING)	IEC 60332-3-24
0.5	36		0.6	0.5			VDE 0482-332-3-3
0.75	24.5		0.6	0.75			EN 60332-3-24
1.0	18.1		0.6	1.0			
1.5	9	100	0.6	1.5	250		BS EN 60332-3-24
2.5	12.1		0.7	2.5			
	7.41						

L/R(Ratio) (Max)		Current Load(25°C)		Operating Voltage	Test Voltage	Bending Radius
mm^2	µH /Ω	mm^2	A			
0.5	25	0.5	6			
0.75	25	0.75	13		Cr./Cr.=2000 V	
1.0	25	1.0	16	300/500V	Cr./Scrn.=2000 V	7,5 X Cable Ø
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)YRY Multi Triple (0.5-2.5)

CU/PVC/OSCR/SWA/PVC

Code No.	No. of cores	External diameter	Armour wire diameter	Cable weight	Packing*
	N x mm²	approx. mm	nominal mm	approx. kg/km	
Cross Section :0.5					
3615	1	11.3	0.9	250	CUT
3625	2	14.8	0.9	375	CUT
3635	3	15.5	0.9	415	CUT
3645	4	16.5	0.9	475	CUT
3655	5	17.8	0.9	535	CUT
3665	6	19.0	0.9	595	CUT
3675	7	19.0	0.9	625	CUT
36105	10	23.8	1.25	960	CUT
36125	12	24.4	1.25	1040	CUT
36165	16	26.7	1.25	1230	CUT
36205	20	29.9	1.6	1610	CUT
36245	24	32.7	1.6	1840	CUT
36305	30	34.3	1.6	2070	CUT
Cross Section :0.75					
3617	1	11.8	0.9	275	CUT
3627	2	15.6	0.9	415	CUT
3637	3	16.2	0.9	470	CUT
3647	4	17.5	0.9	545	CUT
3657	5	18.7	0.9	615	CUT
3667	6	20.1	0.9	685	CUT
3677	7	20.1	0.9	720	CUT
36107	10	25.4	1.25	1110	CUT
36127	12	26.0	1.25	1210	CUT
36167	16	29.3	1.6	1625	CUT
36207	20	32.2	1.6	1895	CUT
36247	24	36.1	2.0	2430	CUT
36307	30	37.9	2.0	2725	CUT
Cross Section :1.0					
36110	1	12.2	0.9	290	CUT
				450	CUT
			1.	1545	CUT

Code No.	No. of cores	External diameter	Armour wire diameter	Cable weight	Packing*
	N x mm²	approx. mm	nominal mm	approx. kg/km	
Cross Section :1.5					
36115	1	13.0	0.9	335	CUT
36215	2	17.6	0.9	530	CUT
36315	3	18.4	0.9	610	CUT
36415	4	19.8	0.9	710	CUT
36515	5	22.2	1.25	960	CUT
36615	6	23.7	1.25	1065	CUT
36715	7	23.7	1.25	1130	CUT
361015	10	29.8	1.6	1705	CUT
361215	12	30.9	1.6	1870	CUT
361615	16	33.7	1.6	2235	CUT
362015	20	38.0	2.0	2905	CUT
362415	24	42.1	2.0	3405	CUT
363015	30	45.4	2.5	4330	
Cross Section :2.5					
36125	1	14.4	0.9	410	CUT
36225	2	19.9	0.9	660	CUT
36325	3	21.8	1.25	925	CUT
36425	4	23.5	1.25	1085	CUT
36525	5	25.3	1.25	1240	CUT
36625	6	27.4	1.25	1410	CUT
36725	7	27.4	1.25	1510	CUT
361025	10	35.7	2.0	2525	CUT
361225	12	36.7	2.0	2755	CUT
361625	16	40.7	2.0	3395	CUT
362025	20	45.9	2.5	4410	CUT
362425	24	50.4	2.5	5080	CUT
363025	30	54.5	3.15	6510	CUT

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