

RE-Y(St)Y Multi pair

CU/PVC /OSCR/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 Y11)
Colour code:	Pair: Black / white , numbered ; Triple: Black/white/red, numbered
Lay-up	Pairs/Triples are stranded in layers
Separator	Polyester 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),
sheath colour:	Blue Ral 5005 Black or Blue (RAL 5015) [other colors upon request]

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	mm ² pF/m	
0.5	36		0.6	0.5	- 30°C-+70°C (FIXED LAYING) IEC 60332-3-24 VDE 0482-332-3-24 EN 60332-3-24 BS EN 60332-3-24
0.75	24.5		0.6	0.75	
1.0	18.1		0.6	1.0	
1.3	13.9	100	0.6	1.3	
1.5	12.1		0.6	1.5	
2.5	7.41		0.7	2.5	

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./Scrn.=2000 V	7,5 X Cable Ø
0.75	25	0.75	13			
1.0	25	1.0	16			
1.3	40	1.3	18			
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 Multi pair (0.5-2.5)

CU/PVC/OSCR/PVC

Code No.	No. of Pairs	External diameter approx. mm	Insulation thickness nominal mm	Cable weight approx. kg/km	Packing*
Cross Section :0.5					
3215	1	6.4	0.6	45	CUT
3225	2	9.1	0.6	75	CUT
3235	3	9.8	0.6	95	CUT
3245	4	10.6	0.6	120	CUT
3255	5	11.6	0.6	140	CUT
3265	6	12.9	0.6	165	CUT
3275	7	12.9	0.6	185	CUT
32105	10	15.6	0.6	260	CUT
32125	12	17.1	0.6	300	CUT
32165	16	19.0	0.6	380	CUT
32205	20	21.3	0.6	470	CUT
32245	24	32.9	0.6	560	CUT
32305	30	25.3	0.6	675	CUT
Cross Section :0.75					
3217	1	6.8	0.6	50	CUT
3217	2	10.0	0.6	90	CUT
3237	3	10.6	0.6	120	CUT
3247	4	11.6	0.6	145	CUT
3257	5	12.8	0.6	180	CUT
3267	6	14.0	0.6	210	CUT
3277	7	14.0	0.6	235	CUT
32107	10	17.9	0.6	330	CUT
32127	12	18.5	0.6	380	CUT
32167	16	20.8	0.6	495	CUT
32207	20	23.4	0.6	615	CUT
32247	24	26.1	0.6	735	CUT
32307	30	27.7	0.6	885	CUT
Cross Section :1.0					
32110	1	7.2	0.6	60	CUT
32210	2	10.6	0.6	105	CUT
32310	3	11.2	0.6	140	CUT
32410	4	12.3	0.6	175	CUT
32510	5	13.6	0.6	215	CUT
32610	6	14.8	0.6	250	CUT
32710	7	14.8	0.6	280	CUT
321010	10	19.1	0.6	395	CUT
321210	12	20.0	0.6	465	CUT
321610	16	22.2	0.6	600	CUT
322010	20	25.0	0.6	740	CUT
322410	24	27.9	0.6	885	CUT
323010	30	29.8	0.6	1090	CUT

Code No.	No. of Pairs	External diameter approx. mm	Insulation thickness nominal mm	Cable weight approx. kg/km	Packing*
Cross Section :1.3					
32113	1	6.8	0.6	64	CUT
32213	2	10.1	0.6	115	CUT
32313	3	10.9	0.6	145	CUT
32413	4	11.8	0.6	194	CUT
32513	5	13.4	0.6	250	CUT
32613	6	14.6	0.6	295	CUT
32713	7	14.6	0.6	330	CUT
311013	10	18.1	0.6	439	CUT
321213	12	18.9	0.6	525	CUT
321613	16	21.1	0.6	650	CUT
322013	20	23.9	0.6	822	CUT
322413	24	26.1	0.6	987	CUT
323013	30	30.1	0.6	1250	CUT
Cross Section :1.5					
32115	1	7.8	0.6	75	CUT
32215	2	11.5	0.6	135	
32315	3	12.3	0.6	180	CUT
32415	4	13.7	0.6	230	CUT
32515	5	14.9	0.6	280	CUT
32615	6	16.5	0.6	335	CUT
32715	7	16.5	0.6	375	CUT
321015	10	21.3	0.6	530	CUT
321215	12	22.0	0.6	620	CUT
321615	16	24.7	0.6	810	CUT
322015	20	27.8	0.6	1010	CUT
322415	24	31.0	0.6	1205	CUT
323015	30	33.1	0.6	1480	
Cross Section :2.5					
32125	1	9.0	0.7	105	CUT
32225	2	13.8	0.7	195	CUT
32225	3	14.7	0.7	265	CUT
32425	4	16.3	0.7	345	CUT
32525	5	17.9	0.7	420	CUT
32625	6	19.8	0.7	500	CUT
32725	7	19.8	0.7	565	CUT
321025	10	25.8	0.7	810	CUT
321225	12	26.7	0.7	945	CUT
321625	16	29.9	0.7	1235	CUT
322025	20	33.6	0.7	1535	CUT
322425	24	37.5	0.7	1840	CUT
323025	30	40.0	0.7	2260	CUT

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