

# RE-Y(St)Y Multicore

CU/PVC/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
Separator	Polyester tape
Overall Shielding	24 µm aluminum / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm <sup>2</sup>
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:	Black Ral 9005

## 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	Propagatio
mm <sup>2</sup>	Ω/km	MΩxKm	mm	mm <sup>2</sup>	pF/m	-30°C~+70°C		
0.5	36	100	0.6	0.5	160	(FIXED LAYING)	IEC 60332-3-24	VDE 0482-332-3-24
0.75	24.5		0.6	0.75	160			
1.0	18.1		0.6	1.0	160			
1.3	13.9		0.6	1.3	170			
1.5	12.1		0.6	1.5	170			
2.5	7.41		0.7	2.5	170			

L/R(Ratio) (Max)		Current Load(25°C)		Operating Voltage	Test Voltage	Bending Radius
mm <sup>2</sup>	µH/Ω	mm <sup>2</sup>	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			
1.3	40	1.3	18			
1.5	40	1.5	20			
2.5	60	2.5	25			

Capacitance Unbalance (max) (800Hz)

500 pF/500m

Temperature Range

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

Oxygen Index

Min. 29%

Flame Test  
332-1-2)

IEC/EN/BS/DIN 60332-1-2 (VDE 0482-

## Design Standards

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

# RE-Y(St)Y Multicore (0.5-2.5)

CU/PVC/OSCR/PVC

Code No.	No. of cores N x mm <sup>2</sup>	External diameter approx. mm	Insulation thickness nominal mm	Cable weight approx. kg/km	Packing*
<b>Cross Section :0.5</b>					
3125	2	6.2	0.9	50	CUT
3135	3	6.5	0.9	65	CUT
3145	4	7.0	0.9	70	CUT
3155	5	7.6	0.9	80	CUT
3165	6	8.1	0.9	90	CUT
3175	7	8.2	0.9	100	CUT
3185	8	9.1	1.0	120	CUT
31105	10	10.4	1.0	140	CUT
31125	12	10.7	1.0	160	CUT
31145	14	11.3	1.0	185	CUT
31165	16	11.8	1.0	200	CUT
31205	20	13.3	1.1	250	CUT
31245	24	14.7	1.1	290	CUT
31275	27	15.0	1.1	320	CUT
31305	30	15.7	1.2	355	CUT
31375	37	16.9	1.2	420	CUT
31405	40	17.6	1.2	450	CUT
<b>Cross Section :0.75</b>					
3127	2	6.5	0.9	55	CUT
3137	3	6.9	0.9	75	CUT
3147	4	7.4	0.9	80	CUT
3157	5	8.1	0.9	105	CUT
3167	6	8.7	0.9	115	CUT
3177	7	8.7	0.9	120	CUT
3178	8	9.7	1.0	145	CUT
31107	10	11.1	1.0	170	CUT
31127	12	11.5	1.0	200	CUT
31147	14	12.2	1.1	255	CUT
31167	16	12.9	1.1	255	CUT
31207	20	14.3	1.1	305	CUT
31247	24	16.0	1.2	365	CUT
31277	27	16.3	1.2	400	CUT
31307	30	16.9	1.2	440	CUT
31377	37	18.2	1.2	5525	CUT
31407	40	19.1	1.3	570	CUT
<b>Cross Section :1.0</b>					
31210	2	6.9	0.9	65	CUT
31310	3	7.3	0.9	90	CUT
31410	4	7.9	0.9	95	CUT
31510	5	8.6	0.9	120	CUT
31610	6	9.5	1.0	140	CUT
31710	7	9.5	1.0	150	CUT
31810	8	10.3	1.0	170	CUT
311010	10	11.9	1.0	210	CUT
311210	12	12.2	1.0	240	CUT
311410	14	13.0	1.1	270	CUT
311610	16	13.7	1.1	315	CUT
312010	20	15.2	1.1	375	CUT
312410	24	17.0	1.2	450	CUT
312710	27	17.4	1.2	495	CUT
313010	30	18.0	1.2	540	CUT
313710	37	19.6	1.3	660	CUT
314010	40	20.4	1.3	705	CUT

Code No.	No. of cores N x mm <sup>2</sup>	External diameter approx. mm	Insulation thickness nominal mm	Cable weight approx. kg/km	Packing*
<b>Cross Section :1.3</b>					
31213	2	7.4	0.9	75	CUT
31313	3	7.9	0.9	105	CUT
31413	4	8.5	0.9	115	CUT
31513	5	9.5	1.0	145	CUT
31613	6	10.3	1.0	160	CUT
31713	7	10.3	1.0	180	CUT
31813	8	11.2	1.0	200	CUT
311013	10	13.2	1.1	250	CUT
311213	12	13.6	1.1	290	CUT
311413	14	14.3	1.1	330	CUT
311613	16	15.0	1.1	380	CUT
312013	20	16.9	1.2	460	CUT
312413	24	18.7	1.2	550	CUT
312713	27	19.3	1.3	605	CUT
313013	30	20.0	1.3	665	CUT
313713	37	21.6	1.3	810	CUT
314013	40	22.7	1.4	865	CUT
<b>Cross Section :1.5</b>					
31215	2	7.7	0.9	82	CUT
31315	3	8.1	0.9	105	CUT
31415	4	8.8	0.9	130	CUT
31515	5	9.8	1.0	155	CUT
31615	6	10.7	1.0	170	CUT
31715	7	10.7	1.0	200	CUT
31815	8	11.6	1.0	225	CUT
311015	10	13.7	1.1	285	CUT
311215	12	14.1	1.1	325	CUT
311415	14	14.8	1.1	375	CUT
311615	16	15.6	1.1	415	CUT
312015	20	17.6	1.2	515	CUT
312415	24	19.6	1.3	610	CUT
312715	27	20.1	1.3	680	CUT
313015	30	20.8	1.3	740	CUT
313715	37	22.6	1.4	905	CUT
314015	40	23.6	1.4	970	CUT
<b>Cross Section :2.5</b>					
31225	2	8.9	0.9	115	CUT
31325	3	9.7	1.0	165	CUT
31425	4	10.5	1.0	180	CUT
31525	5	11.5	1.0	215	CUT
31625	6	12.7	1.1	260	CUT
31725	7	12.7	1.1	290	CUT
31825	8	13.9	1.1	340	CUT
311025	10	16.3	1.2	420	CUT
311225	12	16.9	1.2	480	CUT
311425	14	17.7	1.2	550	CUT
311625	16	18.9	1.3	625	CUT
312025	20	21.1	1.3	765	CUT
312425	24	23.6	1.4	925	CUT
312725	27	24.1	1.4	1020	CUT
313025	30	25.2	1.5	1130	CUT
313725	37	27.2	1.5	1375	CUT
314025	40	28.5	1.6	1480	CUT

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