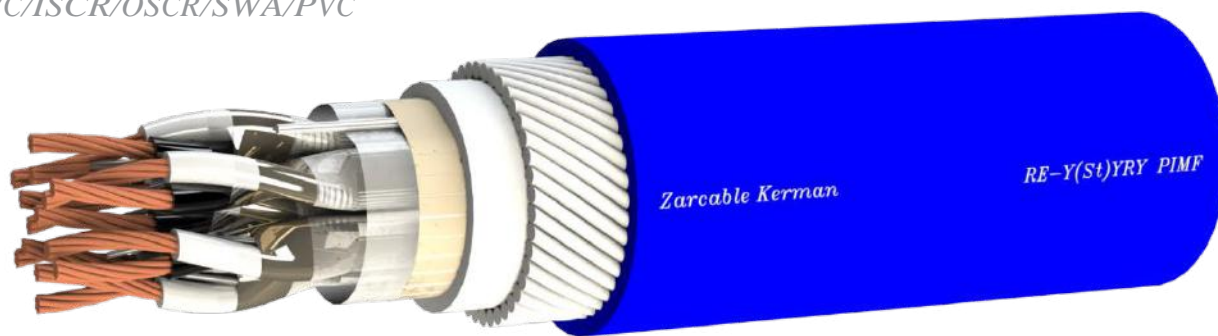


RE-Y(St)YRY PIMF

CU/PVC/ISCR/OSCR/SWA/PVC



Flame Retardant and UV Resistant / Armored 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
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
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),
sheath colour:	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 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
0.75	24.5		0.6	0.75		VDE 0482-332-3-24
1.0	18.1	100	0.6	1.0		EN 60332-3-24
1.5	12.1		0.6	1.5		BS EN 60332-3-24
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	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	
1.5	40	1.5	20	
2.5	60	2.5	25	

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

Bending radius 7,5 x D

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 PIMF (0.5-2.5)

CU/PVC/ISCR/OSCR/SWA/PVC

Code No.	No. of Pairs	External diameter	Armour Wire Diameter	Cable weight	Packing*
	N x mm ²	approx. mm	nominal mm	approx. kg/km	
Cross Section :0.5					
3515	1	11.3	0.9	245	CUT
3525	2	15.1	0.9	375	CUT
3535	3	15.7	0.9	425	CUT
3545	4	16.8	0.9	480	CUT
3555	5	18.1	0.9	540	CUT
3565	6	19.3	0.9	600	CUT
3575	7	19.3	0.9	425	CUT
35105	10	24.3	1.25	975	CUT
35125	12	25.0	1.25	1045	CUT
35165	16	27.3	1.25	1230	CUT
35205	20	30.6	1.6	1615	CUT
35245	24	33.5	1.6	1845	CUT
35305	30	36.2	2.0	2345	CUT
Cross Section :0.75					
3517	1	11.8	0.9	270	CUT
3527	2	15.8	0.9	410	CUT
3537	3	16.6	0.9	465	CUT
3547	4	17.9	0.9	540	CUT
3557	5	19.1	0.9	405	CUT
3567	6	20.5	0.9	670	CUT
3577	7	20.5	0.9	705	CUT
35107	10	25.8	1.25	1090	CUT
35127	12	26.7	1.25	1195	CUT
35167	16	29.8	1.6	1590	CUT
35207	20	32.8	1.6	1850	CUT
35247	24	36.8	2.0	2385	CUT
35307	30	38.6	2.0	2650	CUT
Cross Section :1.0					
35110	1	12.1	0.9	285	CUT
35210	2	16.5	0.9	445	CUT
35310	3	17.2	0.9	505	CUT
35410	4	18.7	0.9	585	CUT
35510	5	20.0	0.9	655	CUT
35610	6	22.3	1.25	875	CUT
35710	7	22.3	1.25	915	CUT
351010	10	27.3	1.25	1205	CUT
351210	12	28.7	1.6	1490	CUT
351610	16	31.5	1.6	1750	CUT
352010	20	34.5	1.6	2040	CUT
352410	24	38.7	2.0	2605	CUT
353010	30	40.8	2.0	2955	CUT

Code No.	No. of Pairs	External diameter	Armour Wire Diameter	Cable weight	Packing*
	N x mm ²	approx. mm	nominal mm	approx. kg/km	
Cross Section :1.5					
35115	1	12.9	0.9	320	CUT
35215	2	17.7	0.9	505	CUT
35315	3	18.6	0.9	580	CUT
35415	4	20.0	0.9	665	CUT
35515	5	22.3	1.25	900	CUT
35615	6	23.9	1.25	1010	CUT
35715	7	23.9	1.25	1060	CUT
351015	10	30.1	1.6	1585	CUT
351215	12	31.2	1.6	1745	CUT
351615	16	34.0	1.6	2070	CUT
352015	20	38.3	2.0	2700	CUT
352415	24	42.5	2.0	3155	CUT
353015	30	45.8	2.5	3980	CUT
Cross Section :2.5					
35125	1	14.2	0.9	380	CUT
35225	2	20.0	0.9	615	CUT
35325	3	21.9	1.25	860	CUT
35425	4	23.5	1.25	990	CUT
35525	5	25.3	1.25	1130	CUT
35625	6	27.4	1.25	1290	CUT
35725	7	27.4	1.25	1360	CUT
351025	10	35.7	2.0	2300	CUT
351225	12	36.7	2.0	2490	CUT
351625	16	40.8	2.0	3040	CUT
352025	20	46.0	2.5	3960	CUT
352425	24	50.5	2.5	4545	CUT
353025	30	54.6	3.15	5840	CUT

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