

RE-2X(St)YRY Multi pair

CU/XLPE /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:	EN 50290-2-29 XLPE COMPOUND
Colour code:	Pair: Black / white , numbered ; Triple: Black/white/red, numbered
Lay-up	Pairs/Triples are stranded in layers
Separator	Polyester tape
Wrapping	Polyester tape
Overall Shielding	24 µm 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 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	
0.5	36	5000	0.6	- 30°C~+70°C (FIXED LAYING)	IEC 60332-3-24
0.75	24.5		0.6		VDE 0482-332-3-24
1.0	18.1		0.6		EN 60332-3-24
1.5	12.1		0.6		BS EN 60332-3-24
2.5	7.41		0.7		

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	300/500V	Cr./Cr.=2000 V Cr./Scrn.=2000 V 7,5 X Cable Ø
0.75	25	0.75		
1.0	25	1.0		
1.5	40	1.5		
2.5	60	2.5		

Temperature Range Fixed -30 °C to +90 °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-2X(St)YRY Multi pair (0.5-2.5)

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Code No.	No. of Pairs N x mm ²	External diameter approx. mm	Wire armor diameter nominal mm	Cable weight approx. kg/km	Packing*
Cross Section :0.5					
7315	1	11.9	0.9	255	CUT
7325	2	15.5	0.9	370	CUT
7335	3	16.1	0.9	410	CUT
7345	4	17.2	0.9	460	CUT
7355	5	18.6	0.9	520	CUT
7365	6	19.9	0.9	570	CUT
7375	7	19.9	0.9	590	CUT
73105	10	25.0	1.25	920	CUT
73125	12	25.7	1.25	980	CUT
73165	16	28.9	1.6	1325	CUT
73205	20	31.5	1.6	1515	CUT
73245	24	34.6	1.6	1715	CUT
73305	30	37.1	2.0	2155	CUT
Cross Section :0.75					
7317	1	12.3	0.9	280	CUT
7327	2	16.1	0.9	400	CUT
7337	3	16.9	0.9	450	CUT
7347	4	18.3	0.9	512	CUT
7357	5	19.5	0.9	570	CUT
7357	6	21.6	1.25	765	CUT
7377	7	21.6	1.25	790	CUT
73107	10	26.4	1.25	1035	CUT
73127	12	27.1	1.25	1105	CUT
73167	16	30.5	1.6	1490	CUT
73207	20	33.6	1.6	1715	CUT
73247	24	37.6	2.0	2230	CUT
73307	30	39.5	2.0	2480	CUT
Cross Section :1.0					
73110	1	12.7	0.9	290	CUT

Code No.	No. of Pairs N x mm ²	External diameter approx. mm	Wire armor diameter nominal mm	Cable weight approx. kg/km	Packing*
Cross Section :1.5					
73115	1	13.5	0.9	325	CUT
73215	2	17.7	0.9	485	CUT
73315	3	18.7	0.9	550	CUT
73415	4	20.2	0.9	435	CUT
73515	5	22.4	1.25	560	CUT
73615	6	24.2	1.25	955	CUT
73715	7	24.2	1.25	1000	CUT
731015	10	30.4	1.6	1515	CUT
731215	12	31.3	1.6	1625	CUT
731615	16	34.4	1.6	1945	CUT
732015	20	38.8	2.0	2520	CUT
732415	24	42.6	2.0	2905	CUT
733015	30	46.3	2.5	3760	CUT
Cross Section :2.5					
73125	1	14.8	0.9	385	CUT
73225	2	19.9	0.9	590	CUT
73325	3	21.7	1.25	820	CUT
73425	4	23.5	1.25	945	CUT
73525	5	25.3	1.25	1065	CUT
73625	6	27.4	1.25	1215	CUT
73725	7	27.4	1.25	1280	CUT
731025	10	35.5	2.0	2165	CUT
731225	12	36.7	2.0	2350	CUT
731625	16	40.2	2.0	2805	CUT
732025	20	46.0	2.5	3730	CUT
732425	24	50.5	2.5	4270	CUT
733025	30	54.6	3.15	5490	CUT

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