

INSTRUMENTATION CABLES

RE-2Y(St)YRY

Screened/armouring single and multi pair, PE insulated, PVC sheath



Construction:

Conductor:	stranded red copper conductor Cl. 2, acc to IEC 60228, DIN VDE 0295
Insulation:	PE type 2Y11
Colour cores:	white-black, with black progressively numbered
Stranding:	conductors twisted in pairs
Wrapping:	Polyester tape
Screen:	electrostatic screen of plastic and aluminium tape + tinned drain-wire
Inner sheath:	PVC type YM1
Armour:	galvanized steel wires
Outer sheath:	black (RAL 9005), or blue (RAL 5015) PVC type YM1

Technical data:

Nominal voltage:	300/500 V
Test voltage:	1,5 kV
Temperature range:	- 30 °C / + 70 °C
Min. bending radius:	7,5 x d

Resistance:



Flame retardant and self-extinguishing acc.to:
IEC 60332-1

Features:

fl: on request

standard TS/DIN EN 50288-7

Insulation thickness:	mm	0,50	0,75	1	1,3	1,5
	mm	0,40	0,40	0,40	0,45	0,45

Conductor resistance:	mm	0,50	0,75	1	1,3	1,5
	Ohm/km	36,7	25	18,5	14,2	12,3

Insulation resistance: min. 5 GOhm x km

Mutual capacitance:	≤ 4 pairs	all other pairs
	0,50 mm ² : max. 115 pF/m	max. 90 pF/m
	0,75 mm ² : max. 115 pF/m	max. 90 pF/m
	1,0 mm ² : max. 115 pF/m	max. 90 pF/m
	1,3 mm ² : max. 120 pF/m	max. 105 pF/m
	1,5 mm ² : max. 120 pF/m	max. 105 pF/m

Capacitance unbalance: (1 kHz): max. 500 pF/500 m

L/R (oran-ratio) (max.):	mm ²	0,50	0,75	1,0	1,3	1,5
	mm ²	25	25	25	40	40

Applications:

These cables are used for transmission of analogue and digital signals in instrument and control systems at chemistry and petrochemistry industry plants, natural gas and petroleum plants. With blue sheath it is suitable for intrinsically safe systems. these cables are for indoor/outdoor installation, in dry and wet locations, on rack trays, in conduits.

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Part no.	No. of pairs x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
47120D.X022M05	2x2x0,50	12,5	30	300	20
47120D.X042M05	4x2x0,50	13,5	50	360	20
47120D.X082M05	8x2x0,50	18	90	590	20
47120D.X122M05	12x2x0,50	20,5	130	790	20
47120D.X162M05	16x2x0,50	23	170	1030	20
47120D.X242M05	24x2x0,50	27,5	270	1370	19
47120D.X022M07	2x2x0,75	13	35	330	19
47120D.X042M07	4x2x0,75	14,5	65	400	19
47120D.X082M07	8x2x0,75	19,5	125	700	19
47120D.X122M07	12x2x0,75	23	185	1020	19
47120D.X162M07	16x2x0,75	25,5	245	1240	19
47120D.X242M07	24x2x0,75	30,5	365	1620	19
47120D.X022M10	2x2x1	13,5	43,2	375	18
47120D.X042M10	4x2x1	16,5	81,6	535	18
47120D.X082M10	8x2x1	21	158,4	795	18
47120D.X122M10	12x2x1	25,5	235,2	1230	18
47120D.X162M10	16x2x1	27,5	312	1420	18
47120D.X242M10	24x2x1	33	464,8	1900	18
47120D.X022M15	2x2x1,5	16,5	62,4	525	16
47120D.X042M15	4x2x1,5	19,5	120	960	16
47120D.X082M15	8x2x1,5	21,5	235,2	1230	16
47120D.X122M15	12x2x1,5	28,7	350,4	1530	16
47120D.X162M15	16x2x1,5	32,1	464,8	1885	16
47120D.X242M15	24x2x1,5	41,5	696	3270	16

* The point inside the part number refers to the different colors in which outer sheath can be produced. Each color has different letter.

Other dimensions and colours available on request.