

# INSTRUMENTATION CABLES

## RE-2Y(St)Yv PiMF



### Construction:

<b>Conductor:</b>	stranded red copper conductor Cl. 2, acc to IEC 60228, DIN VDE 0295
<b>Insulation:</b>	PE compound
<b>Colour cores:</b>	white-black, with black progressively numbered
<b>Stranding:</b>	conductors twisted in pairs, PiMF (pair in metal foil), foil taping, drain-wire, Cu-bare 0,6 mm, plastic coated alu-foil and plastic foil, PiMF stranded in layer, 1 communication core PE-insulation orange
<b>Screen</b>	
<i>Individual:</i>	electrostatic screen of plastic and aluminium tape + tinned drain-wire
<i>Overall:</i>	electrostatic screen of plastic and aluminium tape + tinned drain-wire
<b>Outer sheath:</b>	blue (RAL 5015) or black (RAL 9005) reinforced PVC compound, low smoke and low halogen compound

### Resistance:



**Flame retardant and self-extinguishing acc.to:**  
PVC DIN VDE 0482 part 332-1-2  
IEC 60332-1  
EN 60332-1

### Features:

fl: on request

<b>Conductor resistance:</b>	0,5 mm <sup>2</sup> : max. 39,0 Ohm/km 1,3 mm <sup>2</sup> : max. 14,2 Ohm/km
<b>Insulation resistance:</b>	min. 5 GOhm x km
<b>Mutual capacitance:</b>	at 800 Hz core/core 0,5 mm : 75 nF/km core/core 1,3 mm : 100 nF/km
<b>Inductance:</b>	max. 0,75 mH/km
<b>Cross-talk attenuation:</b>	min 1,02 dB/kmat 60 kHz

### Technical data:

<b>Nominal voltage:</b>	300 V
<b>Test voltage:</b>	core/core 2 kV core/screen 1 kV
<b>Temperature range</b>	
<i>Fixed laying:</i>	- 40 °C / + 70 °C
<i>Flexible application:</i>	- 5 °C / + 70 °C
<b>Min. bending radius:</b>	7,5 x d

### Applications:

Instrumentation cables are used in data processing and process control and are suitable for fixed installations in damp locations, in open locations, in open spaces and for underground laying.

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### BLACK:

Part no.	No. of pairs x cross section n x mm <sup>2</sup>	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
47110C7X022M05	2x2x0,5	12	35	128	20
47110C7X042M05	4x2x0,5	12,7	60	170	20
47110C7X062M05	6x2x0,5	14	82	215	20
47110C7X082M05	8x2x0,5	14,9	121	246	20
47110C7X102M05	10x2x0,5	16,4	136	261	20
47110C7X122M05	12x2x0,5	17,6	161	351	20
47110C7X162M05	16x2x0,5	19,8	212	430	20
47110C7X202M05	20x2x0,5	21,2	262	496	20
47110C7X242M05	24x2x0,5	23,6	313	604	20
47110C7X362M05	36x2x0,5	26,9	465	850	20
47110C7X482M05	48x2x0,5	32,2	616	1115	20
47110C7X022M13	2x2x1,3	12,7	68	184	16
47110C7X042M13	4x2x1,3	15,2	124	269	16
47110C7X062M13	6x2x1,3	16,7	178	370	16
47110C7X082M13	8x2x1,3	18,8	239	442	16
47110C7X122M13	12x2x1,3	21,4	353	593	16
47110C7X162M13	16x2x1,3	24,7	468	789	16
47110C7X242M13	24x2x1,3	29,4	697	1104	16

### BLUE:

Part no.	No. of pairs x cross section n x mm <sup>2</sup>	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
47110CBX022M05	2x2x0,5	12	35	128	20
47110CBX042M05	4x2x0,5	12,7	60	170	20
47110CBX062M05	6x2x0,5	14	82	215	20
47110CBX082M05	8x2x0,5	14,9	121	246	20
47110CBX102M05	10x2x0,5	16,4	136	261	20
47110CBX122M05	12x2x0,5	17,6	161	351	20
47110CBX162M05	16x2x0,5	19,8	212	430	20
47110CBX202M05	20x2x0,5	21,2	262	496	20
47110CBX242M05	24x2x0,5	23,6	313	604	20
47110CBX362M05	36x2x0,5	26,9	465	850	20
47110CBX482M05	48x2x0,5	32,2	616	1115	20
47110CBX022M13	2x2x1,3	12,7	68	184	16
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47110CBX122M13	12x2x1,3	21,4	353	593	16
47110CBX162M13	16x2x1,3	24,7	468	789	16
47110CBX242M13	24x2x1,3	29,4	697	1104	16

Other dimensions and colours available on request.