

INSTRUMENTATION CABLES

RE-2Y(St)Yv



Construction:

Conductor:	stranded red copper conductor Cl. 2, acc. to IEC 60228, DIN VDE 0295
Insulation:	PE compound type 2Y11
Colour cores:	white-black, with black progressively numbered
Stranding:	conductors twisted in pairs
Screen:	electrostatic screen of plastic and aluminium tape + tinned drain-wire
Outer sheath:	blue (RAL 5015) or black (RAL 9005) PVC type TM1, outer sheath reinforced

Technical data:

Nominal voltage:	300/500 V
Test voltage:	2 kV
Temperature range:	- 30 °C / + 50 °C
Max short circuit temperature:	+160°C
Min. bending radius:	7,5 x d

Resistance:



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

Features:

Reinforced outer sheath

the electrostatic screen protect the screened pairs against outer electrostatic interference fields

low level of fine attenuation and low mutual capacitance enable long transmission distances and fast pulse acceleration

Conductor resistance: 0,5 mm²: max. 39,0 Ohm/km
0,75 mm²: max. 24,6 Ohm/km
1,3 mm²: max. 14,2 Ohm/km

Insulation resistance: min. 5 GOhm x km

Mutual capacitance: at 800 Hz
core/core 0,5 mm²: max. 60 nF/km
for 1 and 2 pairs: 75 nF/km
core/core 0,75 mm²: 65 nF/km
for 1 and 2 pairs: 110 nF/km
core/core 1,3 mm²: 75 nF/km
for 1 and 2 pairs: 100 nF/km

Cross-talk attenuation: max. 0,75 mH/km

Applications:

Instrumentation cables are used in data processing and process control and are suitable for fixed instalations 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 ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
47080D7X012M05	1x2x0,5	7,5	15	74	20
47080D7X022M05	2x2x0,5	10,2	30	117	20
47080D7X042M05	4x2x0,5	11	50	140	20
47080D7X062M05	6x2x0,5	12,6	70	190	20
47080D7X082M05	8x2x0,5	13,8	90	215	20
47080D7X102M05	10x2x0,5	14,6	110	220	20
47080D7X122M05	12x2x0,5	15,7	130	280	20
47080D7X162M05	16x2x0,5	17,5	170	352	20
47080D7X202M05	20x2x0,5	18,5	210	385	20
47080D7X242M05	24x2x0,5	20,2	270	468	20
47080D7X362M05	36x2x0,5	24	370	656	20
47080D7X482M05	48x2x0,5	27,4	490	854	20
47080D7X012M07	1x2x0,75	7,9	20	74	19
47080D7X022M07	2x2x0,75	10,6	35	123	19
47080D7X042M07	4x2x0,75	11,7	65	164	19
47080D7X082M07	8x2x0,75	14,6	125	258	19
47080D7X102M07	10x2x0,75	15,8	154	305	19
47080D7X162M07	16x2x0,75	19	245	445	19
47080D7X202M07	20x2x0,75	21,5	298	520	19
47080D7X242M07	24x2x0,75	23,2	365	620	19
47080D7X362M07	36x2x0,75	28,2	532	940	19
47080D7X482M07	48x2x0,75	32	708	1250	19
47080D7X012M13	1x2x1,3	8,8	31	102	16
47080D7X022M13	2x2x1,3	11,7	62	161	16
47080D7X042M13	4x2x1,3	13,5	114	230	16
47080D7X062M13	6x2x1,3	16	168	310	16
47080D7X082M13	8x2x1,3	16,8	218	377	16
47080D7X122M13	12x2x1,3	19,3	322	515	16
47080D7X162M13	16x2x1,3	22	426	656	16
47080D7X242M13	24x2x1,3	26,5	684	952	16

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BLUE:

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.*)
47080DBX012M05	1x2x0,5	7,5	15	74	20
47080DBX022M05	2x2x0,5	10,2	30	117	20
47080DBX042M05	4x2x0,5	11	50	140	20
47080DBX062M05	6x2x0,5	12,6	70	190	20
47080DBX082M05	8x2x0,5	13,8	90	215	20
47080DBX102M05	10x2x0,5	14,6	110	220	20
47080DBX122M05	12x2x0,5	15,7	130	280	20
47080DBX162M05	16x2x0,5	17,5	170	352	20
47080DBX202M05	20x2x0,5	18,5	210	385	20
47080DBX242M05	24x2x0,5	20,2	270	468	20
47080DBX362M05	36x2x0,5	24	370	656	20
47080DBX482M05	48x2x0,5	27,4	490	854	20
47080DBX012M07	1x2x0,75	7,9	20	74	19
47080DBX022M07	2x2x0,75	10,6	35	123	19
47080DBX042M07	4x2x0,75	11,7	65	164	19
47080DBX082M07	8x2x0,75	14,6	125	258	19
47080DBX102M07	10x2x0,75	15,8	154	305	19
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47080DBX122M13	12x2x1,3	19,3	322	515	16
47080DBX162M13	16x2x1,3	22	426	656	16
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Other dimensions and colours available on request.