OB-BL-PAAR-CY

Outer sheath blue, meter marking, EMC-preferred type

Technical data

- PVC cable adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range** flexing -10°C to +80°C fixed installation -30°C to +80°C
- **Operating peak voltage** 900 V (not for heavy current installation purposes)
- **Test voltage** core/core 2000 V core/screen 1000 V
- **Breakdown voltage** min. 4000 V
- **Mutual capacitance** at 800 Hz core/core approx. 105 pF/m core/screen approx. 145 pF/m
- **Inductance** approx. 0,68 mH/km
- **Impedance** approx. 80 Ohm
- **Coupling resistance** max. 250 Ohm/km
- **Minimum bending radius** flexing 10x cable Ø fixed installation 5x cable Ø

Cable structure

- Bare copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Core insulation special PVC compound type TI2 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification (pair) to DIN 47100
- Cores twisted in pairs
- Pairs stranded in layers with optimal lay length
- Foil wrapping
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour: blue (RAL 5015)
- With meter marking

Properties

- Extensively oil resistant, oil-/chemical resistance see "Technical Information"
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Note

- For installation in explosive areas including intrinsic safety -i- acc. to DIN EN 60079-14 / IEC 60079-14, section 16.2.2 (VDE 0165-1)
- Instrumentation cable RE-2Y(St)Yv with blue outer sheath see Data and Computer Cables
- AWG sizes are approximate equivalent values. The actual cross section is in mm².

Application

These cables are appropriate for flexible use with medium mechanical stresses, and free movement without tensile stress or forced movements. For hazardous areas the cables with special marking (blue) (hazard type-i-) used as flexible control and measuring cables to meet the requirements for the installation of electrical apparatus. These installations are not earthed and require a separate power circuit. Those cables are not suitable for underground laying. The copper braided screening ensures the transmission of data signals and free from interference.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
14077	2 x 2 x 0,5	7,6	47,0	89,0	20
14078	3 x 2 x 0,5	8,2	67,0	104,0	20
14079	4 x 2 x 0,5	9,0	80,0	126,0	20
14080	6 x 2 x 0,5	10,9	108,0	171,0	20
14081	8 x 2 x 0,5	12,3	129,0	251,0	20
14082	10 x 2 x 0,5	14,2	172,0	282,0	20
14083	12 x 2 x 0,5	14,7	235,0	261,0	20
14084	16 x 2 x 0,5	16,3	301,0	445,0	20
14085	20 x 2 x 0,5	17,7	343,0	525,0	20
14086	24 x 2 x 0,5	20,2	394,0	590,0	20
14087	25 x 2 x 0,5	20,6	406,0	622,0	20

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
14089	2 x 2 x 0,75	8,6	60,0	105,0	19
14090	3 x 2 x 0,75	9,1	80,0	128,0	19
14091	4 x 2 x 0,75	10,1	110,0	156,0	19
14092	6 x 2 x 0,75	12,4	142,0	216,0	19
14093	8 x 2 x 0,75	14,2	200,0	309,0	19
14094	10 x 2 x 0,75	16,0	238,0	355,0	19
14095	12 x 2 x 0,75	16,8	270,0	405,0	19
14096	16 x 2 x 0,75	18,6	342,0	560,0	19
14097	20 x 2 x 0,75	21,2	369,0	671,0	19
14098	24 x 2 x 0,75	22,8	451,0	795,0	19
14099	25 x 2 x 0,75	23,2	461,0	803,0	19

Dimensions and specifications may be changed without prior notice. (RA04)