

OZ-BL-CY

flexible, outer sheath blue, meter marking, EMC-preferred type



Technical data

- Special-PVC control cable adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**
flexing -10°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
U₀/U 300/500 V
- **Test voltage**
3000 V
- **Breakdown voltage**
min. 6000 V
- **Mutual capacitance**
core/core approx. 140 nF/km
core/screen approx. 187 nF/km
- **Inductance**
approx. 0,68 mH/km
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper conductor, to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type Z 7225
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- without GN-YE conductor
- Cores stranded in layers with optimal lay length
- Separating foil
- 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 Informations"
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and 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 section 16.2.2 (VDE 0165 part 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

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. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
14028	2 x 0,75	6,2	40,0	59,0	19
14029	3 x 0,75	6,6	52,0	66,0	19
14030	4 x 0,75	7,1	60,0	77,0	19
14031	5 x 0,75	7,8	71,0	93,0	19
14088	7 x 0,75	8,4	91,0	130,0	19
14032	8 x 0,75	9,5	110,0	145,0	19
14033	10 x 0,75	10,7	137,0	180,0	19
14034	12 x 0,75	11,1	142,0	202,0	19
14035	18 x 0,75	12,9	212,0	292,0	19
14036	20 x 0,75	13,9	238,0	362,0	19
14037	25 x 0,75	15,4	281,0	415,0	19
14038	30 x 0,75	16,4	320,0	486,0	19
14039	34 x 0,75	17,8	345,0	523,0	19
14040	41 x 0,75	19,3	400,0	680,0	19
14041	2 x 1	6,5	50,0	65,0	18
14042	3 x 1	6,9	60,0	81,0	18
14043	4 x 1	7,6	71,0	98,0	18
14044	5 x 1	8,2	88,0	127,0	18
14045	7 x 1	9,0	111,0	158,0	18
14046	12 x 1	11,9	184,0	260,0	18
14047	18 x 1	14,0	260,0	380,0	18
14048	25 x 1	16,5	349,0	534,0	18
14049	34 x 1	19,0	486,0	741,0	18

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
14050	2 x 1,5	7,1	63,0	88,0	16
14051	3 x 1,5	7,7	80,0	100,0	16
14052	4 x 1,5	8,3	97,0	126,0	16
14053	5 x 1,5	9,2	119,0	160,0	16
14054	7 x 1,5	9,9	147,0	208,0	16
14055	12 x 1,5	13,5	267,0	338,0	16
14056	18 x 1,5	15,7	374,0	479,0	16
14057	25 x 1,5	18,5	526,0	705,0	16
14058	30 x 1,5	19,7	555,0	830,0	16
14059	34 x 1,5	21,3	629,0	900,0	16
14060	3 x 2,5	9,2	144,0	167,0	14
14061	4 x 2,5	10,0	148,0	195,0	14
14062	5 x 2,5	11,0	181,0	223,0	14
14063	7 x 2,5	12,1	255,0	344,0	14
14064	12 x 2,5	16,4	441,0	570,0	14
14065	18 x 2,5	19,3	570,0	681,0	14

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