OZ-BL-CY outer sheath blue, intrinsic safety, flexible, meter marking

Technical data

- Control cable, special PVC with blue outer sheath for hazardous areas to hazard type -i- (=intrinsically safe)
- For intrinsically safe installation acc. to DIN EN 60079-14 and IEC 60079-14 section 12.2.2. (VDE 0165 part 1)
- **Temperature range**
  flexing -10°C to +80°C
  fixed installation -40°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Insulation resistance**
  min. 20 MOhm x km
- **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 80×10^6 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 table Technical Informations
- The materials used in manufacture are cadmium-free and contain no silicone and 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 (equivalent DIN VDE 0472 part 804 test method B)

Note

- For underground laying use NYY with blue outer sheath.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Instrumentation cable RE-2Y(St)Yv with blue outer sheath see Data and Computer cables

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 compatibillity

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

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
14028	2 x 0,75	6,1	40,0	59,0	19
14029	3 x 0,75	6,3	52,0	66,0	19
14030	4 x 0,75	6,8	60,0	77,0	19
14031	5 x 0,75	7,4	71,0	93,0	19
14088	7 x 0,75	8,2	91,0	130,0	19
14032	8 x 0,75	9,0	110,0	145,0	19
14033	10 x 0,75	10,3	137,0	180,0	19
14034	12 x 0,75	10,5	142,0	202,0	19
14035	18 x 0,75	12,7	212,0	292,0	19
14036	20 x 0,75	13,6	238,0	362,0	19
14037	25 x 0,75	15,0	281,0	415,0	19
14038	30 x 0,75	16,0	320,0	486,0	19
14039	34 x 0,75	17,2	345,0	523,0	19
14040	41 x 0,75	18,1	400,0	680,0	19
14041	2 x 1	6,4	50,0	65,0	18
14042	3 x 1	6,7	60,0	81,0	18
14043	4 x 1	7,2	71,0	98,0	18
14044	5 x 1	8,0	88,0	127,0	18
14045	7 x 1	8,7	111,0	158,0	18
14046	12 x 1	11,4	184,0	260,0	18
14047	18 x 1	13,6	260,0	380,0	18
14048	25 x 1	16,2	349,0	534,0	18
14049	34 x 1	18,5	486,0	741,0	18

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
14050	2 x 1,5	7,0	63,0	88,0	16
14051	3 x 1,5	7,4	80,0	100,0	16
14052	4 x 1,5	8,1	97,0	126,0	16
14053	5 x 1,5	9,0	119,0	160,0	16
14054	7 x 1,5	9,8	147,0	208,0	16
14055	12 x 1,5	12,8	267,0	338,0	16
14056	18 x 1,5	15,6	374,0	479,0	16
14057	25 x 1,5	18,4	526,0	705,0	16
14058	30 x 1,5	19,6	555,0	830,0	16
14059	34 x 1,5	21,2	629,0	900,0	16

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

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