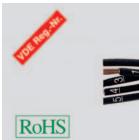
# **OZ-BL-CY** outer jacket blue, intrinsic safety, flexible, EMC-preferred type,

meter marking





### **Technical data**

- Control cable, special PVC with blue outer jacket for hazardous areas to hazard type -i- (=intrinsically safe)
- For intrinsically safe installation according to DIN EN 60079-14 and IEC 60079-14 section 12.2.2. (VDE 0165 part 1)
- Temperature range flexing -5°C to +80°C fixed installation -40°C to +80°C
- Nominal voltage U<sub>0</sub>/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 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

# **Cable structure**

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z 7225
- Black cores with white continuous figure imprint to DIN VDE 0293 without earth core • Cores stranded in layers with optimal
- lav-length
- Core wrapping of plastic foil
- Braiding, tinned copper wire screening, approx. 85% coverage
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1 and HD 21.1
- Colour blue (RAL 5015)
- with meter marking, change-over in 2009

# **Properties**

HELUKABEL VDE Reg.-Nr. 7034 OZ-BL-CY 5x0,75 QMM / 14031 300/500 V 001042084 €€

- Extensively oil resistant Chemical Resistance - see table Technical Informations.
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

#### Note

- For underground laying use NYY with blue outer sheath.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- Instrumentation cable RE-2Y(St)Yv with blue outer jacket see catalog part B.

# 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

7 x 1

18 x 1

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

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

111.0

184 0

260.0

158,0

260.0

380.0

Part No.	No.cores x cross-sec. mm²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No.cores x cross-sec. mm <sup>2</sup>	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
14028	2 x 0,75	6,1	40,0	59,0	18	14048	25 x 1	16,2	349,0	534,0	17
14029	3 x 0,75	6,4	52,0	66,0	18	14049	34 x 1	18,0	486,0	741,0	17
14030	4 x 0,75	6,9	60,0	77,0	18						
14031	5 x 0,75	7,4	71,0	93,0	18	14050	2 x 1,5	6,8	63,0	88,0	16
14088	7 x 0,75	8,6	91,0	130,0	18	14051	3 x 1,5	7,3	80,0	100,0	16
14032	8 x 0,75	9,4	110,0	145,0	18	14052	4 x 1,5	8,1	97,0	126,0	16
14033	10 x 0,75	10,2	137,0	180,0	18	14053	5 x 1,5	8,9	119,0	160,0	16
14034	12 x 0,75	10,4	142,0	202,0	18	14054	7 x 1,5	10,5	147,0	208,0	16
14035	18 x 0,75	12,4	212,0	292,0	18	14055	12 x 1,5	12,8	267,0	338,0	16
14036	20 x 0,75	12,9	238,0	362,0	18	14056	18 x 1,5	15,2	374,0	479,0	16
14037	25 x 0,75	15,1	281,0	415,0	18	14057	25 x 1,5	18,5	526,0	705,0	16
14038	30 x 0,75	15,6	320,0	486,0	18	14058	30 x 1,5	19,0	555,0	830,0	16
14039	34 x 0,75	16,9	345,0	523,0	18	14059	34 x 1,5	20,8	629,0	900,0	16
14040	41 x 0,75	18,3	400,0	680,0	18						
14041	2 x 1	6,4	50,0	65,0	17						
14042	3 x 1	6,7	60,0	81,0	17						
14043	4 x 1	7,3	71,0	98,0	17						
14044	5 x 1	7,8	88,0	127,0	17						

13 2 Dimensions and specifications may be changed without prior notice. (RA04)

9,1



14045

1404

14047