# OZ-CY-BLUE

**For intrinsically safe installation acc. to DIN EN 60079-14**

PVC insulated and PVC sheathed flexible screened control cable for potentially explosive areas

## Construction:

| | |
|---|---|
| **Conductors:** | annealed copper flexible conductor, class 5 acc. to DIN VDE 0295 |
| **Insulation:** | special PVC compound |
| **Core identification:** | all cores black with continuous white continuous numbering to DIN VDE 0293 |
| **Taping and screening:** | stranding wrapped in polyester foil, special aluminium/polyester foil and tinned copper braided screen (approx. 85% coverage) |
| **Outer sheath:** | special PVC compound |
| **Colour of outer sheath:** | blue RAL 5015 |

## Characteristic:

| | |
|---|---|
| **Nominal Voltage:** | 300/500 V |
| **Test voltage 50Hz:** | 3000 V |
| **Temperature range:** | flexing: -10°C to +80°C<br>fixed: -40°C to +80°C |
| **Minimum bending radius:** | free movement: 10 x cable ∅<br>fixed installation: 5 x cable ∅ |
| **Flame propagation:** | acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2 |
| **Standard length cable packing:** | 500 m or 1000 m on drums. Other forms of packing and delivery are available on request. |

## Application:

Measuring and control cable for use in potentially explosive areas. Not suitable for laying underground. The copper screening provides enhanced electromagnetic compatibility and transmission of signals without interference.

| Number and nominal cross-sectional area of conductors | Approximate overall diameter | Approximate net weight of copper | Approximate net weight of cables |
|---|---|---|---|
| n x mm² | mm | kg/km | kg/km |
| 2 x 0,75 | 6,1 | 40,0 | 59,0 |
| 3 x 0,75 | 6,3 | 52,0 | 66,0 |
| 4 x 0,75 | 6,8 | 60,0 | 77,0 |
| 5 x 0,75 | 7,4 | 71,0 | 93,0 |
| 7 x 0,75 | 8,2 | 91,0 | 130,0 |
| 8 x 0,75 | 9,0 | 110,0 | 145,0 |
| 10 x 0,75 | 10,3 | 137,0 | 180,0 |
| 12 x 0,75 | 10,5 | 142,0 | 202,0 |
| 18 x 0,75 | 12,7 | 212,0 | 292,0 |
| 20 x 0,75 | 13,6 | 238,0 | 362,0 |
| 25 x 0,75 | 15,0 | 281,0 | 415,0 |
| 30 x 0,75 | 16,0 | 320,0 | 486,0 |
| 34 x 0,75 | 17,2 | 345,0 | 523,0 |
| | | | |

| | | | | | |
|---|---|---|---|---|---|
| 2 | x | 1 | 6,4 | 50,0 | 65,0 |
| 3 | x | 1 | 6,7 | 60,0 | 81,0 |
| 4 | x | 1 | 7,2 | 71,0 | 98,0 |
| 5 | x | 1 | 8,0 | 88,0 | 127,0 |
| 7 | x | 1 | 8,7 | 111,0 | 158,0 |
| 12 | x | 1 | 11,4 | 184,0 | 260,0 |
| 18 | x | 1 | 13,6 | 260,0 | 380,0 |
| 25 | x | 1 | 16,2 | 349,0 | 534,0 |
| 34 | x | 1 | 18,5 | 486,0 | 741,0 |
| | | | | | |
| 2 | x | 1,5 | 7,0 | 63,0 | 88,0 |
| 3 | x | 1,5 | 7,4 | 80,0 | 100,0 |
| 4 | x | 1,5 | 8,1 | 97,0 | 126,0 |
| 5 | x | 1,5 | 9,0 | 119,0 | 160,0 |
| 7 | x | 1,5 | 9,8 | 147,0 | 208,0 |
| 12 | x | 1,5 | 12,8 | 267,0 | 338,0 |
| 18 | x | 1,5 | 15,6 | 374,0 | 479,0 |
| 25 | x | 1,5 | 18,4 | 526,0 | 705,0 |
| 30 | x | 1,5 | 19,6 | 555,0 | 830,0 |