



Multi-conductor flexible cables with stranded core and PVC insulation and sheath



Application:

CYL ... cables are special flexible data cables which are used for demanding industrial environment. Blue outer sheath cables are designed for intrinsically safe environment (- i). They are used as flexible, controlling and measuring cables for measuring and regulating devices. Different types of shielding ensure unimpeded transmission of signals.

Cable construction:

- **Cable cores:** stranded Cu conductors with cross-section: 0,14; 0,35; 0,5; 0,75; 1,0; 1,5; 2,5 mm²
- **Insulation:** special PVC material
- Filler from PET foil is placed above the coiled cores
- **Shield construction:**
 - F - AlPET foil + enclosed CuSn wire
 - O - Cu braiding with min. covering 70 %
for execution CYL...i with min. covering 85 %
 - S - CuSn braiding with min. covering 70 %
for execution CYL...i with min. covering 85 %
 - J - longitudinal AlPET foil + CuSn braiding with min. covering 45 %
- **Sheath cable:** Y - PVC, E - PE
- **Colour of sheath:** black or other if required
- **Letter - i:** Intrinsically safe execution with guaranteed induction and operating capacity, colour of sheath: blue
When 4th letter in letter mark is missed, cable is unshielded.

Technical data:

- **Operating temperature:** -30 °C to +70 °C
- **Min. temperature for laying:** -5 °C

Marking:

- **Numeric marking:**
 - n - number of conductors in cable
 - m - core cross-section
- **Conductor colour:** white, blue, red green, yellow, black, brown, grey, orange, purple
Conductor colour may be other if required.



Technical data:

Nominal cross-section [mm ²]	0,14	0,35	0,5	0,75	1	1,5	2,5
Min. thickness insulation [mm]	0,2	0,3	0,4	0,5	0,6	0,7	0,8
Effective resistance of conductors [Ω /km]	131,0	60,0	39,0	26,7	19,5	13,3	7,98
Test voltage [kV]	0,5	1	1	1	1,5	1,5	2,0
Nominal voltage [V]	30	100	100	100	100	100	100
Inductance for types CYL...-i [mH/km]	appr. 0,67						
Operating pair capacity for unshielding cable [nF/km]	appr. 120						
Operating pair capacity for shielding cable [nF/km]	appr. 140						