

YCY-JB

Flexible, copper screened cables, color coded cores, transparent, EMC*



Cable structure

- Stranded bare copper core according to DIN VDE 0295 and IEC 60228 cl. 5
- Core insulation of special PVC compound
- Cores color coded, green-yellow earth core in the outer layer,
2-cores: blue/brown
3-cores: green-yellow/blue/brown
4-cores: green-yellow/brown/black/grey
5-cores: green-yellow/blue/brown/black/grey
- Cores stranded in layers with optimal lay-length
- Inner sheath of PVC
- Tinned copper braided screening, approx 85% coverage
- Special transparent PVC outer sheath, extensively oil resistant
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Technical data

- Special PVC flexible cable, requirements adapted to DIN VDE 0245, 0250, 0281
- **Temperature range** flexing from -5 °C to +70 °C
fixed from -40 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Spark test** 6000 V
- **Test voltage a.c.** core/core 3000 V
core/screen 2000 V
- **Insulation resistance** min. 20 M Ω × km
- **Minimum bending radius** approx. 10× cable diameter
- **Radiation resistance** up to 80×10⁶ cJ/kg (up to 80 Mrad)

Application

This cable is designed to use as a control cable in machinery, computer systems as well as signal cable in electronics. The high density of the braiding assures disturbance-free transmission of all signals and impulses. The inner PVC sheath of the cable raises its resistance to mechanical stress. The used transparent inner PVC sheath optically highlights the tinned copper braiding. These cables are suitable for flexible use for medium mechanical stress with free movement.

Note

* EMC = Electromagnetic compatibility – recommended type

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC

OB = version without green-yellow earth core Other sizes and types available on request.

Conforms to RoHS.

Part No.	Number of cores × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0216121 OB	2 × 0,5	7,0	32	70
0216122	3 × 0,5	7,5	39	83
0216123	4 × 0,5	7,9	46	94
0216124	5 × 0,5	8,4	52	108
0216125 OB	2 × 0,75	7,8	39	89
0216126	3 × 0,75	8,1	49	98
0216127	4 × 0,75	8,5	57	113
0216128	5 × 0,75	9,1	69	130
0216129 OB	2 × 1	8,0	46	97
0216130	3 × 1	8,2	56	103
0216131	4 × 1	8,9	69	146
0216132	5 × 1	9,5	85	169
0216133 OB	2 × 1,5	8,4	63	130
0216134	3 × 1,5	9,0	76	152
0216135	4 × 1,5	9,6	96	168
0216136	5 × 1,5	10,5	111	202
0216137 OB	2 × 2,5	10,0	96	180
0216138	3 × 2,5	10,7	148	216
0216139	4 × 2,5	11,4	174	267
0216140	5 × 2,5	12,5	200	347
0216141 OB	2 × 4	11,6	135	302
0216142	3 × 4	12,3	178	340
0216143	4 × 4	13,4	220	410
0216144	5 × 4	14,8	328	502

Part No.	Number of cores × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0216145 OB	2 × 6	13,5	175	350
0216146	3 × 6	14,2	240	450
0216147	4 × 6	15,6	305	559
0216148	5 × 6	17,0	441	702
0216149 OB	2 × 10	16,8	265	500
0216150	3 × 10	17,8	370	750
0216151	4 × 10	19,7	485	1020
0216152	5 × 10	21,6	610	1115
0216153	4 × 16	22,6	1240	1380
0216154	5 × 16	25,2	1390	1553
0216469	4 × 25	28,9	1310	1890
0216155	5 × 25	31,8	1840	2270
0216470	4 × 35	32,2	1610	2390
0216156	5 × 35	36,4	2015	2885
0216471	4 × 50	38,2	2220	3315
0216472	4 × 70	46,8	3090	4600
0216473	4 × 95	51,0	4060	6060
0216474	4 × 120	56,0	5150	7315
0216247	4 × 150	63,5	6740	9340