According to DIN EN 60079-14; VDE 0165 part 1

Product Description

Space saving installation due to small cable diameters;Copper wire braid of the ÖLFLEX® EB CY protects signal transmission within intrinsically safe circuits against electromagnetic interference

RoHS

Application range

- Installation of intrinsically safe circuits, where a special cable marking for hazard area type "i"- intrinsically safety is specified
- In EMI critical environment (electromagnetic interference)

Benefits

- Space saving installation due to small cable diameters
- Copper wire braid of the ÖLFLEX® EB CY protects signal transmission within intrinsically safe circuits against electromagnetic interference

Design

- Fine strands of bare copper wires
- PVC insulation LAPP P8/1
- Plastic foil wrapping
- tinned copper braid
- PVC outer sheath, sky blue RAL 5015

Approvals (Norm references)

- According to DIN EN 60079-14 section 12.2.2 (VDE 0165 part 1) - Electrical characteristics and marking of wires and cables

Product features

- Flame retardant according to IEC 60332-1-2
- High coverage degree of the screen low transfer impedance (max. 250 Ohm/km at 30 MHz)

Technical Data

Core identification code
Black with white numbers acc. to VDE 0293
Mutual capacitance
Core/core approx. 135 nF/km Core/screen approx. 185 nF/km
Inductivity
approx. 0.65 mH/km
Based on
HD 21.13 S1
VDE 0281 Part 13
Specific insulation resistance
> 20 GOhm x cm

Conductor stranding
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
Minimum bending radius
Occasional flexing: 20 x cable diameter
Fixed installed: 6 x outer diameter
Rated voltage
< 50 V AC < 75 V DC see Info
Test voltage
Core/core: 3000 V
Core/screen: 2000 V
Range of temperature
Occasional flexing: -5°C up to +70°C
Fixed installation: -40°C up to +80°C

Article List

Part number	Number of cores and mm² per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® EB CY screened; without inner sheath				
0012640	2 X 0,75	6,2	43.0	56
0012641	3 X 0,75	6,5	52.0	70
0012642	4 X 0,75	7.0	61.0	95
0012643	5 X 0,75	7,7	72.0	108
0012644	7 X 0,75	8,3	89.0	168
0012645	12 X 0,75	10,9	138.0	216
0012646	18 X 0,75	12,7	211.0	315
0012647	25 X 0,75	14,8	280.0	435
0012650	2 X 1,0	6,5	51.0	84
0012651	3 X 1,0	6,8	62.0	110
0012652	5 X 1,0	8,1	88.0	156
0012653	7 X 1,0	8,8	112.0	192
0012654	12 X 1,0	11,5	185.0	285
0012655	18 X 1,0	13,9	268.0	395
0012656	25 X 1,0	15,9	354.0	656
0012660	2 X 1,5	7,1	65.0	87

0012661	3 X 1,5	7,5	82.0	112
0012662	5 X 1,5	8,9	119.0	148
0012663	7 X 1,5	9,9	154.0	193
0012664	12 X 1,5	13.0	268.0	365
0012666	25 X 1,5	17,9	530.0	734

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Photographs are not to scale and do not represent detailed images of the respective products.