ÖLFLEX® CLASSIC FD 810 CY

DB 0026200
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Application

ÖLFLEX® CLASSIC FD 810 CY cables are high flexible, power and control cables with sheath of PVC for flexible use and fixed installation under normal mechanical load conditions. They are designed for use in dry, damp or wet rooms. They may only be installed outdoors with UV-protection and considering the temperature range. The cables are generally resistant against acids, caustics solution and specific oils. Usage on motor drum guidance or under a strain of more than 15 N/mm^2 is not allowed. The screen is a protection against electrical interference.
Application range:
In power chain or moving machine parts; suitable for use in measuring, control and regulating circuits; power circuits for electrical equipment used in automation engineering; assembly lines, production lines in all kinds of machines; plant engineering

Design

Design	based on EN 50525-2-51 resp. VDE 0285-525-2-51
Conductor	fine wire strands of bare copper acc. to IEC 60228 that is VDE 0295, class 6
Core insulation	LAPP special PVC compound P8/1 with increased requests to TI2 acc. to EN 50363-3 resp. VDE 0207-363-3
Core identification	acc. to VDE 0293-1, with or without GN / YE ground conductor, black cores with white numbers acc. to EN 50334 resp. VDE 0293-334
Inner sheath	PVC-compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 with increased requests to LAPP specification colour: silver grey, similar RAL 7001
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	PVC-compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 with increased requests to LAPP specification colour: silver grey, similar RAL 7001

Electrical properties

Nominal voltage	U_0/U: 300 / 500 V
Test voltage	C / C: 4000 V C / S: 4000 V

Mechanical and thermal properties

Min. bending radius	occasional flexing: fixed installation:	7,5 x outer diameter 4 x outer diameter
Number of bending/unbending cycles	5 mio. cycles	
Travel distance	10 m	
Temperature range	occasional flexing: fixed installation:	0 °C up to +70 °max. conductor temp. -40 °C up to +80 °C max. conductor temp.
Flame retardant	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EC-Directives	This cable is conform to the EU-Directives 2014/35/EU (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	

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