

ÖLFLEX® CLASSIC 135 CH BK 0,6/1 kV**DB 1123460**

valid from: 2013-07-31

Application

ÖLFLEX® CLASSIC 135 H BK 0,6/1 kV are screened halogen free, highly flame retardant power and control cables, designed for the European and Nord American market, for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are among others designed for use in dry and humid rooms. Considering the temperature range, a temporary outdoor use is possible. They are not for use in continuously recurring movement. Continuous movement, usage of these cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm² conductor cross-section is not allowed. The screen is a protection against electrical interference.

Application range:

public buildings, airports, railway stations, plant engineering, industrial machinery, heating and air-conditioning systems and particularly where human and animal life as well as valuable property exposed to high risk of fire hazards

USE gem. UL: FRPE sheathed cable for external interconnection

Design

Design	acc. to UL AWM 758, Style 21288 und based on EN 50525-3-11 resp. VDE 0285-525-3-11	
Approval	UL AWM 758, Style 21288 (File No. E63634)	
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5	
Core insulation	halogen free compound Tl6 acc. to EN 50363-7 resp. VDE 0207-363-7	
Core identification	acc. to VDE 0293-1 up to 5 cores:	colour-coded acc. to HD 308 S2 resp. VDE 0293-308, with or without GN/YE ground conductor
	starting at 6 cores:	black cores with white numbers, with or without GN/YE ground conductor, acc. to EN 50334 resp. VDE 0293-334
Screen	braid of tinned copper, coverage = 85% (nominal value)	
Outer sheath	halogen free compound TM7 acc. to EN 50363-8 resp. VDE 0207-363-8 colour: black, similar RAL 9005	

Electrical properties

Nominal voltage	VDE U ₀ / U:	600 / 1000 V
	UL:	1000V
Test voltage	Core / Core:	4000 V
	Core / Screen:	2000 V

Mechanical and thermal properties

Min. bending radius	occasional flexing:	20 x outer diameter
	fixed installation:	6 x outer diameter
Temperature range	occasional flexing (VDE):	-15 °C up to +70 °C max. conductor temp.
	occasional flexing (UL):	-15 °C up to +80 °C max. conductor temp.
	fixed installation (VDE):	-40 °C up to +80 °C max. conductor temp.
	fixed installation (UL):	-40 °C up to +80 °C max. conductor temp.

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Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: Cable flame test flame propagation acc. to IEC 60332-3-24 resp. VDE 0482-332-3-24 or IEC 60332-3-25 resp. VDE 0482-332-3-25
Smoke density	acc. to IEC 61034-2
Toxicity	acc. to NES 713-3, EN 50306-1 (≤ 3)
Halogen-free	acc. to IEC 60754-1
Corrosivity	acc. to IEC 60754-2
UV resistance	acc. to EN ISO 4892-2-2006, method A
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Tests	acc. to IEC 60811, EN 50395, EN 50396, UL 1581
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).