

ÖLFLEX® 120 CH

DB 1022802

valid from: 2013-04-22

Application

ÖLFLEX® 120 H are halogen free, flame retardant and low smoke control cables for occasional flexible use and fixed installation under light resp. normal mechanical load conditions. They are among others designed for use in dry and damp rooms. Outdoor use: They may only be installed with UV-protection and considering the indicated temperature range.

Continuous busy movements, compulsory guidance respectively usage on cable drums or pulleys or under a strain of more than 15 N / mm² conductor cross-section are not allowed. The screen is a protection against electrical interference.

Application range:

Public buildings, air ports, railway stations, plant engineering and construction, industrial machinery, air conditioning installations. They are particularly used where in the event of fire human and animal life as well as valuable property are exposed to high risk of fire hazards.

Design

Design	based on EN50525-2-51 resp. VDE 0285-525-2-51 / HD 21.13 S1+A1 resp. VDE 0281-13
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, class 5
Core insulation	halogen free compound Type HI2 based on Polyolefin with increased requirements
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Inner sheath	halogen free compound HM2 acc. to DIN VDE 0250-214 colour: silver grey, similar RAL 7001
Screen	braid of tinned copper wires, coverage = 85 % (nominal value)
Outer sheath	halogen free compound HM2, acc. to DIN VDE 0250-214 with increased requirements Colour: silver grey, similar RAL 7001

Electrical properties

Nominal voltage	U ₀ / U:	300 / 500 V
Test voltage	C/C; S/C	4000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing:	20 x outer diameter
	fixed installation:	6 x outer diameter
Temperature range	occasional flexing:	-25 °C up to +70 °C max. conductor temperature
	fixed installation:	-40 °C up to +70 °C max. conductor temperature
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2	
Smoke density	acc. to IEC 61034-2	
Toxicity	acc. to NES 713 issue 3, EN 50306-1 (≤ 3)	
Halogen-free	acc. to IEC 60754-1	
Corrosivity	acc. to IEC 60754-2	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EC-Directives	These cables are conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	