ÖLFLEX® PETRO C HFFR multicore

DB 0023252
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Application

ÖLFLEX® PETRO C HFFR - multicore is designed as connection and control cable especially for offshore applications like for instance on oil rigs for the cabling of pumping stations, compressors and generators of drilling units. The cable is UV-, oil- and abrasion resistant for the use in harsh environment. The selected insulation and outer sheath compounds are halogen free and flame retardant resp. self extinguishing. The tinned copper braiding serves as screening against electrical interference. Depending on normative interpretation the braiding also can be used as so-called „Braid Armour“.

Design

Conductor	fine wire strands of tinned copper according to IEC 60228 resp. VDE 0295 Class 5
Core insulation	polyolefine compound, halogen free
Core identification	up to 5 cores coloured with resp. without GN/YE ground conductor according to HD 308 S2 resp. VDE 0293-308 starting from 6 cores black with white numbers with resp. without GN/YE ground conductor according to DIN EN 50334 resp. VDE 0293-334
Stranding	cores twisted together into layers
Taping	stranded core assembly with fleece wrapping, overlapped
Inner sheath	halogen free special compound, colour black
Screening	braid of tinned copper wires, coverage = 85% (nominal value)
Outer sheath	Special polymer compound, oil resistant, halogen free and flame retardant sheath colour : black or blue

Electrical, thermal, mechanical and chemical characteristics

Nominal voltage	U_0/U 600/1000 V UL/CSA: 1000 V	
Test voltage	C/C 4000 V C/S 4000 V	
Minimum bendig radius	occasional flexing: fixed installed:	20 x cable diameter 6 x cable diameter
Temperature range	occasional flexing: fixed installed: 	-40 °C up to +90 °C (max. conductor temperature) UL/AWM: -40 °C up to +80 °C (max. conductor temperature) -50 °C up to +90 °C (max. conductor temperature) UL/AWM: -50 °C up to +80 °C (max. conductor temperature)
Flammability No flame propagation	according to IEC 60332-1-2 resp. EN 60332-1-2. UL VW-1, Cable flame test, CSA FT1 according to IEC 60332-3-22 Cat. A resp. EN 60332-3-22 test method A	
Halogen free	according to VDE 0472-815	
Ozone resistance	according to EN 50396 test method B	
UV resistance	according to ISO 4892-2:2006 method A	
Salt water resistance	according to UL 1309	
Oil resistance	oil resistant according to NEK 606: 2004	
Drilling fluid resistance	oil and drilling fluid (mud) resistant according to IEC 61892-4, Annex D	
Approvals	UL AWM 758, Style 20234, cUL AWM II A/B	
EC directives	This cable is conform to ECD 2006/95/EC (Low Voltage Directive).	