0023249	DATA SHEET	LAPP
valid from: 01.01.2019	ÖLFLEX® PETRO C HFFR single core	

Application

ÖLFLEX® PETRO C HFFR - single core is designed as connection 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- , MUD- 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“.

USE acc. to UL: Cables for external wiring.
USE acc. to cRU: Cables for external interconnection with or without mechanical abuse.

Design

Design	acc. to UL AWM Style 11624, UL 758 based on DIN EN 50525-3-11 resp. VDE 0285-525-3-11
Certification	UL AWM Style 11624 (File No. E63634), UL 758 cRU AWM II A/B (File No. E63634)
Conductor	fine wire strands of tinned copper acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	polyolefine compound, halogen free
Core identification code	black
Taping	non-woven wrapping
Screen	braid of tinned copper wires, coverage = 85% (nominal value)
Outer sheath	special polymer compound, oil resistant, halogen free and flame retardant colour: black, similar RAL 9005

Electrical properties at 20°C

Rated voltage	U_0/U: 600/1000 V UL/CSA: 1000 V
Test voltage	Core/Screen: 2500 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 20 x outer diameter fixed installation: 6 x outer diameter
Temperature range	occasional flexing: -40 °C up to +90 °C max. conductor temp. occasional flexing (UL/CSA): up to +80 °C max. conductor temp. fixed installation: -50 °C up to +90 °C max. conductor temp. fixed installation(UL/CSA): up to +80 °C max. conductor temp.
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: Vertical flame test VW-1 CSA: FT1 no flame-propagation acc. to IEC 60332-3-22 resp. VDE 0482-332-3-22 test cat. A
Halogen free	acc. to VDE 0472-815
UV resistance	acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Oil resistance	acc. to EN 50363-10-2- resp. VDE 0207-363-10-2 and NEK TS 606: 2016
MUD resistance	acc. to NEK TS 606:2016 and IEC 61892-4, Annex D
Water-resistance	Salt water resistance acc. to UL 1309
Tests	acc. to IEC 60811 resp. VDE 0473 part 811, EN 50395, EN 50396, UL 1581 and CSA C22.2
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)