OFFSHORE CABLES
MLXTCH-FR

FIRE RESISTANT, SCREENED, HALOGEN-FREE SHEATHED,
INSTRUMENTATION & TELECOMMUNICATION CABLES

APPLICATION: These fire resistant halogen-free screened cables are mainly used in fixed installations and these twisted pairs (in pair form) are mainly used for data engineering where low current consumptions are required such as e.g. instrumentation, telecomunication and control cable in ships. They are very resistant to all conditions in the marine environment such as dry, wet and oil. The pairs form with optimum pair and layer pitch prevent mutual interaction from neighbouring conductor circuits as well from adjacent external cables. And also consisting of tinned copper wires as screen provides protection against external pulses.Because of their screened by copper wire braided they prevent interference by radio and electronic equipment. These cables are used for safety, alarm and other critical systems. These cables fields of use are fire proof and halogen free cables which, on the basis of a fixed operating mode, can continue with the supply of a power for a period of 180 minutes under the existing fire conditions (at a temperature of 750^{o}C and under the flames). Also these cables shall satify EN50200 test which is a fire resistant with mechancal shock test (under the conditions at 842^{o}C and mechenical shock) by the classes PH15-PH30-PH60-PH90. These cables are used in the environments which have no corrosive gases are emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low.

CABLE DESIGN

Conductor	:	Annealed plain stranded copper wire, IEC 60228-2
Insulation	:	HF S-95, halogen-free silicone compound, IEC 60092-351
Core identification	:	According to IEC 60092-350
Pair	:	Two conductors twisted to a pair
Lay-up	:	Pairs laid up in layers of optimum pitch
İnner Covering	:	Polyester tape
Screen	:	Braid of copper wires, >%90 coverage
Outer Sheath	:	Halogen-free thermoplastic (SHF1) compound, IEC 60092-359
Sheath colour	:	RAL 9005, Black

Note: All core configurations manufactured upon request.

Part number: 1811 XX XXX

TECHNICAL DATA

Standard	:	IEC 60092-376 & IEC 60092-350 (Designed according to)
Conductor temperature	:	Max. + 95 ^{o}C
Short-circuit temperature		Max. + 350 ^{o}C
Insulation resistance	:	>100 Mohm.km
Rated voltage Uo/U	:	250 V
Test voltage (AC 50 Hz)	:	1500 V
Temperature range	:	- 30 ^{o}C ~ + 90 ^{o}C
Min. installation temperature	:	-10 ^{o}C
Min. bending radius	:	12 x D
Flame test	:	IEC 60332-3 & TS/DIN EN 50266-2-4
Smoke density test	:	IEC 61034-2 & TS/DIN EN 61034-2
Halogen-free properties test	:	IEC60754-1/2 & TS/DIN EN 50267-2
Insulation integrity		IEC 60331 , VDE 0472-814
Fire resis. with mech. shock		DIN EN 50200; PH30-PH60-PH 90