

WATERLINK - TERE 24kV

TERE 24kV 3x25mm² +GS12

Nexans Ref.: 10536841

EAN 13: 70452100xx25

Fettpylt armert kabel for bruk som landstrømskabel i oppdrettnæring og andre dynamiske installasjoner samt som sjøkabel. Kontruert for spenningsområde 230V-3kV

DESCRIPTION

WATER LINK TERE 12/20 (24) kV. is a submarine cable construction, specifically designed for aquaculture and fish farms, for the harsh and varying weather conditions in Norway. The cable is manufactured to withstand the harsh conditions it may be exposed to both during installation and operation.

WATER LINK FERE 12/20 (24) kV. is a grease filled, armored, submarine cable construction, with single mode fiber optics included in the cable.

The cable is mainly used as power supply cable between shore/land and fish farm or aquaculture units at sea, but is also approved for other submarine cable systems. The cable armoring consists of galvanized steel wires designed in with the same expertise that Nexans SHV division use (Submarine High Voltage).

OPTIONS

WATER LINK TERE 24kV can be supplied with a fiber element G12, 24, 48 or 96 single mode.

It is not recommended that multimode is used, due to the restrictions multimode have on long lengths. It is also possible to include control or signal pairs.



CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Circular, stranded, class 2
Material of the inner semi-conductor	-
Insulation	Extruded XLPE
Material of the external semi-conductor	-
Armour type	Galvanised round steel wires
Conductor flexibility	Stranded class 2
Fiber optic type	SingleMode 9/125
Outer sheath	XLPE
Sheath colour	Black



Conductor flexibility
Stranded class 2



Rated Voltage U₀/U
(Um)
12 / 20 (24) kV



Min. dynamic
operating bending
rad.
850.0 mm



Operation bending
rad.
850 mm



Fire retardant
No



Bending factor
when laying
15 (xD)



Max. conductor
temp. in service
90 °C



Minimum
installation
temperature
-10 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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Construction characteristics

With Green/Yellow core No

Dimensional characteristics

Conductor cross-section	25 mm ²
Conductor diameter	6.0 mm
Armour thickness	- mm
Diameter over insulation	20.0 mm
Average insulation thickness	5.5 mm
Diameter of steel wires	2.5 mm
Nominal outer diameter	56.8 mm
Outer Diameter (mm)	-
Approximate weight	4500 kg/km
Number of cores	3

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	12 / 20 (24) kV
Max. DC resistance of the conductor at 20°C	0.727 Ohm/km
Maximum operating voltage	24000 V
Nominal phase capacitance	0.166 µF / km
Permissible current rating in open air	155 A
Permissible current rating when buried	155 A
Permissible short circuit current	3500 A
Phase reactance 50 Hz - trefoil formation	0.148 Ohm/km

Usage characteristics

Minimum dynamic operating bending radius	850.0 mm
Laying operation bending radius	850 mm
Fire retardant	No
Bending factor when laying	15 (xD)
Max. conductor temperature in service	90 °C
Max. temperature energized, outer sheath	- °C
Minimum installation temperature	-10 °C
Short-circuit max. conductor temperature	250 °C



Conductor flexibility
Stranded class 2



Rated Voltage U₀/U (U_m)
12 / 20 (24) kV



Min. dynamic operating bending rad.
850.0 mm



Operation bending rad.
850 mm



Fire retardant
No



Bending factor when laying
15 (xD)



Max. conductor temp. in service
90 °C



Minimum installation temperature
-10 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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