



Reference: 10280406
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CONTACT

Market information
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CABLES FOR VARIABLE FREQUENCY DRIVES

STANDARDS

Product IEC 60228

Installation IEC 60092 - 350; IEC 60092 - 353; IEC 60092 - 360

Test a; IEC 60332 - 3 - 22; IEC 60754 - 1; IEC 61034

APPLICATION

Motor supply cable for frequency converters controlled low voltage AC drives on ships, called VFD applications. MPRXCX® FLEXISHIP® EMC cables are designed with a special coverage, copper - polyester tape and braid, which provide a 100% EMC protection. Insulation with low dielectric constant is used to reduce reflected wave voltage peak magnitude.

Symmetrical insulated ground wires, placed in corner, can reduce reflected wave and return common mode noisy currents back to the drive. Enhanced insulation is implemented for 0.6/1 (1.2) kV cable to fulfil periodic peak voltage up to $2xU=2$ kV due to harmonics.

These cables are used on board of ships in all locations for fixed installations.

Design

1. Conductor:
Flexible bare copper class 5
Stranded bare copper class 2 for cross - section $< 4 \text{ mm}^2$
2. Insulation:
XLPE (cross linked polyethylene)
3. Optional
Return earth conductor
4. Assembling:
Polyester tape
5. Screen / Armouring:
Copper / polyester tape
Bare copper braid
6. Outer sheath:
Polyolefin SHF1
Colour: black

Example of marking:

LYNXEO 279 MPRXCX FLEXISHIP EMC Nbr of cores & cross - section 0.6/1 kV 90C

IEC 60092 - 353 IEC 60332 - 22 Cat. A SS YYYY *CE* Manufacturing n° + metric marking

Core Identification

3 cores: black - grey - brown

Earth: green/yellow split in 3 conductors



Conductor flexibility

2



Halogen free
IEC 60754 - 1



Uo/U
(Um)
0.6/ 1 (1.2) kV



Fire retardant
EN IEC
60332 - 3 - 22 (cat
A)



IEC 60332 - 1



IEC 61034



Gases corrosivity
IEC 60754 - 2



Electro magnetic
interference
resistance
Yes

CHARACTERISTICS

Conductor flexibility	2
	XLPE(가)
Armour type	
Sheath colour	
With Green/Yellow core	
Halogen free	IEC 60754 - 1
	4
	2.5 mm ²
Nominal outer diameter	11.72 mm
Minimum outer diameter	10.9 mm
Maximum outer diameter	12.5 mm
()	222.23 kg/km
Earth conductor cross section	2.5 mm ²
Number of auxiliary conductors	-
Permissible current rating in open air	- A
U ₀ /U (U _m)	0.6/ 1 (1.2) kV
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
	IEC 60332 - 1
	IEC 61034
Gases corrosivity	IEC 60754 - 2
Electro magnetic interference resistance	Yes
操作度范	- 30 ... 80 °C
Max. conductor temperature in service	90 °C



Conductor flexibility

2



Halogen free
IEC 60754 - 1



U₀/U
(U_m)
0.6/ 1 (1.2) kV



Fire retardant
EN IEC
60332 - 3 - 22 (cat
A)



IEC 60332 - 1



IEC 61034



Gases corrosivity
IEC 60754 - 2



Electro magnetic
interference
resistance
Yes

OTHER CHARACTERISTICS

Test Voltage
AC between cores..... 5 kV AC

Minimum bending radius for fixed installations..... 5 x outer diameter