

MPRX® / MPRX® FLEXISHIP® 0.6/1 (1.2) kV

POWER & CONTROL CABLES without screen

Description

Applications

MPRX® cable type is used on board of ships for fixed installations, not subject to mechanical risk, complying with IEC 60092-352.

MPRX® FLEXISHIP® type is recommended for installations in narrow space, and in particular for connexions. Bending force is reduced by 30% compared with regular class 2 conductors.

MPRX® and MPRX® FLEXISHIP® types withstand IEC 60332-3-22 fire test on bunched cables and perform to the SOLAS requirements.



Design

All materials used to manufacture this cable are halogen-free. This design ensures that non corrosive and low toxic gases are emitted in case of fire. Therefore, this cable type is especially designed for installations on passenger ships.

Standards

International IEC 60092-350;
 IEC 60092-353; IEC 60092-360;
 IEC 60228; IEC 60332-1;
 IEC 60332-3-22; IEC 60754-1;
 IEC 60754-2; IEC 61034

1. Conductor

Stranded bare copper, class 2
 or flexible bare copper, class 5 for FLEXISHIP® types
 (cross sections $\geq 35 \text{ mm}^2$)

2. Insulation

XLPE (cross-linked polyethylene)

3. Outer sheath

(Filler, if necessary)
 Polyolefin SHF1 (SHF2 on request)
 Colour : black

Marking

I NEXANS I MPRX or MPRX FLEXISHIP "n" x "s" mm² 0.6/1 kV 90C

IEC 60092-353 IEC 60332-3-22 Cat. A "ww/yy"+ metric marking



Halogen free
 IEC 60754-1



Fire retardant
 IEC
 60332-3-22



Flame
 retardant
 IEC 60332-1



Gases
 toxicity
 No



Gases
 corrosivity
 IEC 60754-2



Smoke
 density
 IEC 61034



Operating temp.
 range
 -30 .. 80 °C



Max. conductor temp. in
 service
 90 °C

MPRX® / MPRX® FLEXISHIP® 0.6/1 (1.2) kV

Characteristics

Construction characteristics	
Halogen free	IEC 60754-1
Sheath colour	Black
Usage characteristics	
Fire retardant	IEC 60332-3-22
Flame retardant	IEC 60332-1
Gases toxicity	No
Gases corrosivity	IEC 60754-2
Smoke density	IEC 61034
Operating temperature, range	-30 .. 80 °C
Max. conductor temperature in service	90 °C

Product List

☎=Make to order, 🏠=In stock

Nexans ref.	Nb. of cores	Cross section (mm²)	Conductor flexibility	Min. outer diam. (mm)	Max. outer diam. (mm)	Approx. weight (kg/km)
☎ 2540xxxx	1	1.5	Stranded class 2	4.6	5.6	40
☎ 2540xxxx	1	2.5	Stranded class 2	5.0	6.2	50
☎ 25403842	1	4	Stranded class 2	5.5	6.8	60
☎ 25403843	1	6	Stranded class 2	6.2	8.2	80
☎ 25403844	1	10	Stranded class 2	6.6	9.2	130
🏠 25403845	1	16	Stranded class 2	8.2	10.0	180
🏠 25403846	1	25	Stranded class 2	9.9	11.9	280
🏠 25403874	1	35	Flexible class 5	11.0	12.5	370
🏠 25403875	1	50	Flexible class 5	12.5	14.5	500
🏠 25403876	1	70	Flexible class 5	15.0	17.0	720
🏠 25403877	1	95	Flexible class 5	17.0	19.0	920
🏠 25403878	1	120	Flexible class 5	18.5	21.0	1140
🏠 25403879	1	150	Flexible class 5	21.0	23.5	1450
🏠 25403880	1	185	Flexible class 5	23.0	25.5	1750
🏠 25403881	1	240	Flexible class 5	26.0	29.0	2260
🏠 25403063	2	1.5	Stranded class 2	7.0	8.5	80
🏠 25403075	2	2.5	Stranded class 2	8.0	9.5	100
🏠 25403839	2	4	Stranded class 2	9.5	12.0	140
🏠 25403850	2	6	Stranded class 2	10.0	13.0	200
🏠 25403851	2	10	Stranded class 2	12.0	16.0	310
🏠 25403852	2	16	Stranded class 2	14.0	18.0	460
☎ 25403067	2	25	Stranded class 2	18.3	20.3	700

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Halogen free IEC 60754-1	Fire retardant IEC 60332-3-22	Flame retardant IEC 60332-1	Gases toxicity No	Gases corrosivity IEC 60754-2	Smoke density IEC 61034	Operating temp. range -30 .. 80 °C	Max. conductor temp. in service 90 °C

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Nexans ref.	Nb. of cores	Cross section (mm²)	Conductor flexibility	Min. outer diam. (mm)	Max. outer diam. (mm)	Approx. weight (kg/km)
 25403069	3	1.5	Stranded class 2	7.5	9.2	100
 25403076	3	2.5	Stranded class 2	8.9	9.6	140
 25403083	3	4	Stranded class 2	9.9	11.4	190
 25403030	3	6	Stranded class 2	11.3	13.3	260
 25403097	3	10	Stranded class 2	13.8	15.8	390
 25403100	3	16	Stranded class 2	15.7	17.7	580
 25403104	3	25	Stranded class 2	19.6	21.6	940
 25403886	3	35	Flexible class 5	22.5	25.0	1230
 25403887	3	50	Flexible class 5	26.0	29.5	1690
 25403888	3	70	Flexible class 5	26.5	30.0	2210
 25403889	3	95	Flexible class 5	30.5	34.0	2870
 25403890	3	120	Flexible class 5	33.5	37.5	3660
 25403860	3	150	Flexible class 5	38.0	42.0	4570
 25403070	4	1.5	Stranded class 2	8.0	10.4	120
 25403077	4	2.5	Stranded class 2	9.9	11.4	170
 25403084	4	4	Stranded class 2	11.7	13.2	250
 25403091	4	6	Stranded class 2	13.0	15.0	330
 25403098	4	10	Stranded class 2	15.4	17.4	500
 25403101	4	16	Stranded class 2	17.5	19.5	770
 25403105	4	25	Stranded class 2	21.5	23.5	1180
 25403899	4	35	Flexible class 5	25.0	28.0	1590
 25403822	4	50	Flexible class 5	29.0	32.5	2180
 25403824	4	70	Flexible class 5	33.5	37.5	3200
 25403054	5	1.5	Stranded class 2	9.6	11.1	160
 25403078	5	2.5	Stranded class 2	10.7	12.2	200
 2540xxxx	5	4	Stranded class 2	12.5	15.5	320
 2540xxxx	5	6	Stranded class 2	13.5	16.5	420
 2540xxxx	5	10	Stranded class 2	15.5	19.0	630
 25403055	7	1.5	Stranded class 2	10.5	12.0	200
 2540xxxx	7	2.5	Stranded class 2	12.0	14.0	280
 25403141	10	1.5	Stranded class 2	13.3	14.8	260
 25403142	12	1.5	Stranded class 2	13.5	15.5	330
 2540xxxx	12	2.5	Stranded class 2	15.5	19.5	460
 25403143	14	1.5	Stranded class 2	14.9	16.4	350
 25403144	16	1.5	Stranded class 2	15.7	17.2	400
 25403154	19	1.5	Stranded class 2	16.7	18.2	500
 2540xxxx	19	2.5	Stranded class 2	18.5	22.5	690

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Halogen free
IEC 60754-1



Fire retardant
IEC 60332-3-22



Flame retardant
IEC 60332-1



Gases toxicity
No



Gases corrosivity
IEC 60754-2



Smoke density
IEC 61034



Operating temp.
range
-30 ... 80 °C



Max. conductor temp. in
service
90 °C

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Nexans ref.	Nb. of cores	Cross section (mm²)	Conductor flexibility	Min. outer diam. (mm)	Max. outer diam. (mm)	Approx. weight (kg/km)
☎ 25403145	24	1.5	Stranded class 2	19.5	21.0	630
☎ 2540xxxx	24	2.5	Stranded class 2	22.0	26.5	880
☎ 2540xxxx	27	1.5	Stranded class 2	21.0	23.0	700
☎ 2540xxxx	27	2.5	Stranded class 2	23.0	27.5	970
☎ 2540xxxx	37	1.5	Stranded class 2	23.0	27.0	930
☎ 2540xxxx	37	2.5	Stranded class 2	25.5	30.5	1300

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Halogen free
IEC 60754-1



Fire retardant
IEC 60332-3-22



Flame retardant
IEC 60332-1



Gases toxicity
No



Gases corrosivity
IEC 60754-2



Smoke density
IEC 61034



Operating temp. range
-30 ... 80 °C



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