



### CONTACT

Market information  
 industryprojects.business@lynxéo  
 ogroup.com

## POWER & CONTROL cables with screen

### STANDARDS

**Product** IEC 60228

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

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

### APPLICATIONS

MPRXCX® 0.6/1 kV armoured power and control cables are used for wiring fixed installations where enhanced mechanical protection and electrical screening is required.

The highly flexible MPRXCX® FLEXISHIP® range is recommended for installations and connections in narrow spaces where an optimal bending radius is required. The sectoral conductors of multicore cables provide further space and weight savings on the cable trays. Designed with halogen-free fire retardant materials, they provide optimum safety for people and maximal asset protection against all risks of fire.

### Design

1. **Conductor:**  
Stranded bare copper, class 2  
or flexible bare copper, class 5 for FLEXISHIP® types (cross sections  $\geq 4 \text{ mm}^2$ )
2. **Insulation:**  
XLPE (cross-linked polyethylene)
3. **Inner covering:**  
(Filler, if necessary)  
Lapped
4. **Armouring:**  
Bare copper braid
5. **Outer sheath:**  
Polyolefin SHF1  
Colour: black

Example of marking:

LYNXEO 279 MPRXCX or MPRXCX FLEXISHIP Nbr of cores & cross-section 0.6/1kV 90C  
 IEC 60092-353 IEC 60332-3-22 Cat. A WW YYYY \*CE\* Manufacturing n° + metric marking

Core Identification

- 1 x: black
- 2 x: brown-blue
- 3 x: brown-black-grey
- 3G: brown-blue-green/yellow
- 4 x: brown-black-grey-blue
- 4G: brown-black-grey-green/yellow
- 5 x: white with printed numbers
- 5G: brown-black-grey-blue-green/yellow
- > 5 cores: n x: white with printed numbers
- > 5 cores: nG: white with printed numbers + green/yellow core



Halogen free  
IEC 60754-1



Rated Voltage U<sub>0</sub>/U  
(Um)  
0.6/ 1 (1.2) kV



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



Flame retardant  
IEC 60332-1



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
-30 ... 80 °C

### CHARACTERISTICS

#### Construction characteristics

Halogen free IEC 60754-1

#### Electrical characteristics

Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>) 0.6/ 1 (1.2) kV

#### Usage characteristics

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

Flame retardant IEC 60332-1

Smoke density IEC 61034

Gases corrosivity IEC 60754-2

Electro magnetic interference resistance Yes

Operating temperature, range -30 ... 80 °C

Max. conductor temperature in service 90 °C

### MPRXCX®

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10164594	2	1.5	No	8.6	9.25	9.9	111
10164607	2	2.5	No	9.3	9.98	10.7	135
10164597	3	1.5	No	9.0	9.68	10.4	134
10164595	3	1.5	Yes	9.0	9.68	10.4	134
10164611	3	2.5	No	9.8	10.56	11.3	170
10164608	3	2.5	Yes	9.8	10.56	11.3	170
10164599	4	1.5	No	9.6	10.33	11.0	161
10164598	4	1.5	Yes	9.6	10.33	11.0	161
10164613	4	2.5	No	10.6	11.41	12.6	207
10164612	4	2.5	Yes	10.6	11.41	12.6	207
10164600	5	1.5	No	10.7	11.46	12.3	191
10280525	5	1.5	Yes	10.7	11.46	12.3	192
10164614	5	2.5	No	11.7	12.38	13.4	245
10195309	5	2.5	Yes	11.7	12.38	13.4	245
10164601	7	1.5	No	11.3	12.22	13.1	235
10280559	7	1.5	Yes	11.3	12.22	13.1	235
10196905	7	2.5	No	12.4	13.36	14.3	303
10164602	12	1.5	No	15.1	16.2	17.3	405
10284313	12	1.5	Yes	15.1	-	17.3	405.27



Halogen free  
IEC 60754-1



Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>)  
0.6/ 1 (1.2) kV



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



Flame retardant  
IEC 60332-1



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Electro magnetic interference resistance  
Yes



Operating temp.  
-30 ... 80 °C

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10283960	12	2.5	No	16.8	18.1	19.4	537
10164603	19	1.5	No	17.6	18.8	20.2	574
10284314	19	1.5	Yes	17.6	-	20.2	574.55
10270141	19	2.5	No	19.5	21.0	22.2	775
10164605	27	1.5	No	21.0	22.6	24.2	787
10285291	27	2.5	No	24.0	25.1	30.0	1075
10164606	37	1.5	No	23.2	24.9	26.6	1031

### MPRXCX® FLEXISHIP®

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10284320	1	6	No	7.4	7.6	9.6	108
10282088	1	10	No	8.6	8.4	11.0	151
10280560	1	16	No	9.1	9.8	10.5	222
10164630	1	25	No	10.9	11.71	12.5	316
10200102	1	35	No	12.4	13.31	14.2	429
10174888	1	50	No	14.3	15.4	16.5	627
10194377	1	70	No	16.6	17.9	19.2	846
10174889	1	95	No	18.3	19.7	21.1	1069
10194375	1	120	No	20.5	22.0	23.6	1315
10194376	1	150	No	22.7	24.4	26.1	1617
10198831	1	185	No	24.7	26.1	27.2	1932
10234991	1	240	No	27.4	29.5	31.6	2510
10283885	1	300	No	30.5	32.8	35.1	3068
10164616	2	4	No	10.8	11.66	12.5	181
10280783	2	6	No	11.6	12.47	13.4	218
10164622	2	10	No	13.1	14.1	15.1	308
10164625	2	16	No	15.6	16.8	18.0	479
10280782	2	25	No	19.7	21.2	22.7	774
10164617	3	4	No	11.4	12.24	13.1	237
10184712	3	4	Yes	11.4	12.24	13.1	237
10164620	3	6	No	12.3	13.23	14.1	291
10184713	3	6	Yes	12.3	13.23	14.1	291
10164623	3	10	No	14.5	15.6	16.7	452



Halogen free  
IEC 60754-1



Rated Voltage U<sub>o</sub>/U<sub>i</sub>  
(Um)  
0.6/ 1 (1.2) kV



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



Flame retardant  
IEC 60332-1



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
-30 ... 80 °C

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Green/ Yellow core	Min. outer diam. [mm]	Nom. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10282798	3	10	Yes	14.5	15.6	16.7	452
10164626	3	16	No	18.5	18.2	22.5	645
10270184	3	16	Yes	16.9	18.2	19.5	644
10164632	3	25	No	21.2	22.8	24.4	1033
10280419	3	25	Yes	21.2	22.8	24.4	1033
10222169	3	35	No	24.1	25.9	27.7	1381
10230036	3	50	No	28.0	29.0	31.0	1887
10280874	3	70	No	32.2	34.6	37.0	2627
10280813	3	95	No	35.6	38.3	41.0	3282
10280875	3	120	No	40.3	43.3	46.3	4197
10285274	3	185	Yes	58.7	-	51.1	6278
10164618	4	4	No	12.3	13.18	14.1	279
10281143	4	4	Yes	12.3	13.18	14.1	279
10281203	4	6	No	14.0	15.0	16.1	401
10280520	4	6	Yes	14.0	15.0	16.1	401
10282475	4	10	No	15.8	17.0	18.2	589
10281142	4	10	Yes	15.8	17.0	18.2	589
10280521	4	16	No	18.7	20.1	21.5	837
10282783	4	16	Yes	18.7	20.1	21.5	837
10283750	4	25	Yes	26.8	-	23.5	1309.83
10280642	4	35	No	27.0	-	31.0	1776
10282474	4	50	No	29.7	31.9	34.1	2394
10203511	4	70	No	35.7	38.4	41.1	3381
10280713	4	95	No	39.9	42.9	45.9	4343
10269954	5	4	Yes	12.8	13.8	14.8	336
10269955	5	6	Yes	15.2	16.3	17.4	486
10283961	5	10	Yes	18.0	18.2	20.0	717
10284322	5	25	No	25.0	-	29.0	1641
10284321	5	25	Yes	28.8	-	25.0	1641
10281620	5	35	Yes	29.4	31.6	33.8	2098
10280694	5	50	Yes	32.9	35.4	37.9	2863
10281621	5	70	Yes	40.0	43.0	46.0	4158



Halogen free  
IEC 60754-1



Rated Voltage U<sub>0</sub>/U  
(Um)  
0.6/ 1 (1.2) kV



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



Flame retardant  
IEC 60332-1



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
-30 ... 80 °C

### OTHER CHARACTERISTICS

#### Test Voltage

AC between cores..... 3.5 kV AC

#### Minimum bending radius for fixed installations

- cable diameter **MPRXCX®**..... 6 x outer diameter
- cable diameter **MPRXCX® FLEXISHIP®**..... 5 x outer diameter



Halogen free  
IEC 60754-1



Rated Voltage U<sub>o</sub>/U  
(Um)  
0.6/ 1 (1.2) kV



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



Flame retardant  
IEC 60332-1



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
-30 ... 80 °C