

CORDAFLEX XPRT (N)SHTOEU 0,6/1KV

Low voltage reeling cables



Flexible low voltage reeling cable for application under high and very high mechanical stresses.

STANDARDS / APPROVALS



Based on DIN VDE 0250-814

VDE Reg. Nr. 7519

DIN VDE 0295 / DIN EN 60228 / IEC 60228

DIN VDE 0207-20

DIN VDE 0207-21

DIN VDE 0298-3

DIN VDE 0298-4

DIN EN 60811-404 / IEC 60811-404

DIN EN 60332-1-2 / IEC 60332-1-2

Reversed bending; roller bending; torsional stress

General

Certifications / Approvals

Conductor

Compound

Compound

Application

Electrical parameters

Chemical behaviour

Fire performance

Mechanical parameters

CABLE DESIGN

Conductor

Core insulation material

-

-

Core arrangement

Material inner sheath

-

-

Armouring/reinforcement

Armouring/reinforcement material

Material outer sheath

-

-

Very finely stranded copper, tinned (class FS)

EPR rubber

PROTOLON MS

Special compound > 3GI3

Laid-up in a maximum of 3 layers

(where applicable) Individual Screen made of tinned copper braid, with coverage: individual 60%; TSP 80%

Rubber - polychloroprene (PCP)

PROTOFIRM

Special compound > 5GM5

Braiding

Polyester

Rubber - polychloroprene (PCP)

PROTOFIRM

Special compound > 5GM5

ELECTRICAL PARAMETERS

Rated voltage U ₀ /U (U _m)	0.6/1 (1.2) kV
Test voltage [kV]	3.5
AC test voltage (control cores) [kV]	3.5
Nominal voltage U [V]	1,000

THERMAL PARAMETERS

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Ambient temperature fix installation (min) [°C]	-50
Ambient temperature fix installation (max) [°C]	80
Ambient temperature flexible installation (min) [°C]	-35
Ambient temperature flexible installation (max) [°C]	80

CHEMICAL PARAMETERS

Flame retardant	In accordance with EN/IEC 60332-1-2
Oil resistant	Yes
Ozone resistance	Yes
Resistant to UV	Yes
Sea water resistance	Yes

OPTICAL FIBER PROPERTIES

Fiber type	G62,5/125 µm Multi-mode graded index	G50/125 µm Multi-mode graded index	E9/125 µm Single-mode graded index
Cladding diameter	125 µm	125 µm	125 µm
Fiber diameter	250 µm	250 µm	250 µm
Attenuation at 850 nm	< 3,3 dB/km	< 2,8 dB/km	
Attenuation at 1310 nm	< 0,9 dB/km	< 0,8 dB/km	< 0,4 dB/km
Attenuation at 1550 nm			< 0,3 dB/km
Bandwidth at 850 nm	> 400 MHz	> 400 MHz	
Bandwidth at 1310 nm	> 600 MHz	> 1200 MHz	
Numerical Aperture	0,275 +/- 0,02	0,2 +/- 0,02	0,14 +/- 0,02
Chromatic Dispersion at 1300 nm			< 3,5 ps/nm km
Chromatic Dispersion at 1550 nm			< 18 ps/nm km

MECHANICAL PARAMETERS

Torsional stress +/- [°/m]	50
Permanent tensile strength (rule)	30 N/mm ²
Travel speed	- Reeling operation: no restriction. It is recommended to consult the manufacturer for speeds beyond 240m/min
Bending radius (rule)	Acc. to VDE 0298-3: 4 X D fixed installation 5 X D flexible operation 20 X D min distance with S-type directional changes

SUSTAINABILITY COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritize sustainability and environmental protection in our daily operations, collaborating with local communities to ensure workplace safety and safeguard the areas we operate in.

Sustainability and environmental responsibility is evident also in our **packaging** solutions across the CEE region. We use fully recyclable drum cover foils to minimize environmental impact. Our packaging for rings is made from 30% recycled materials, supporting a circular economy. Additionally, our boxes are made from recyclable, environment-friendly cardboard, promoting eco-conscious choices. By choosing Prysmian, you are not only selecting high-quality products but also contributing to a greener future.

Check for more details about our sustainability commitment here: [Sustainability report and responsibility](#).



CABLE PROPERTIES

Basic construction	SAP code	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
4x2,5	20458600	5DH3***	2	13.2	14.8	315
4x4	20458641	5DH3***	3	16	18	470
4x6	20458642	5DH3***	3.6	17.4	19.4	600
4x10	20458643	5DH3***	4.6	21.6	23.6	900
4x16	20458644	5DH3***	5.6	23.7	26.7	1,300
4x25	20458645	5DH3***	7.3	28.5	31.5	1,850
4x35	20458646	5DH3***	8.4	37.5	40.5	2,780
5x2,5	20458648	5DH3***	2	14.2	15.8	350
5x4	20458650	5DH3***	3	17.4	19.4	550
5x6	20458651	5DH3***	3.6	19	21	690
5x10	20458652	5DH3***	4.6	23.4	25.4	1,070
5x16	20458657	5DH3***	5.6	26.1	29.1	1,500
5x25	20458659	5DH3***	7.3	33.7	36.7	2,340
5x35	20006914	5DH3***	8.4	37.5	40.5	3,140
7x1,5	20458791	5DH3***	1.6	15.2	17.2	390
7x2,5	20458792	5DH3***	2	16.6	18.6	500
12x1,5	20458793	5DH3***	1.6	21.4	23.4	720
12x2,5	20458796	5DH3***	2	23.4	25.4	910
18x1,5	20458797	5DH3***	1.6	21.3	23.3	770
24x1,5	20458799	5DH3***	1.6	23.8	26.8	1,020
24x2,5	20458800	5DH3***	2	26.2	29.2	1,400
30x1,5	20458811	5DH3***	1.6	26.5	29.5	1,240
30x2,5	20458812	5DH3***	2	29.4	32.4	1,660
36x1,5	20458813	5DH3***	1.6	26.5	29.5	1,290
36x2,5	20458814	5DH3***	2	30.3	33.3	1,830
44x1,5	20458815	5DH3***	1.6	29.5	32.5	1,530
44x2,5	20459124	5DH3***	2	34.1	37.1	2,180
56x1,5	20459125	5DH3***	1.6	35.9	38.9	2,040
56x2,5	20459126	5DH3***	2	40.1	43.1	2,870
24x1,5+ 12x(2E9LWL)	20459127	5DH3***	1.6	26.5	29.5	1,180
20x2,5+ 6x(3E9LWL)	20459128	5DH3***	2	28.4	31.4	1,290
24x2,5+ 6x(2E9LWL)	20459129	5DH3***	2	29.4	32.4	1,520
28x2,5+ 2x(3G50LWL)	20459130	5DH3***	2	29.4	32.4	1,590

CABLE PROPERTIES ELECTRICAL / MECHANICAL

Basic construction	SAP code	External code	Max. tensile strength [N]	Bending radius moving (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Current carrying capacity [A]
4x2,5	20458600	5DH3***	300	74	8.21	30
4x4	20458641	5DH3***	480	90	5.09	41
4x6	20458642	5DH3***	720	97	3.39	53
4x10	20458643	5DH3***	1,200	118	1.95	74
4x16	20458644	5DH3***	1,920	134	1.24	99
4x25	20458645	5DH3***	3,000	158	0.795	131
4x35	20458646	5DH3***	4,200	203	0.565	162
5x2,5	20458648	5DH3***	370	79	8.21	30
5x4	20458650	5DH3***	600	97	5.09	41
5x6	20458651	5DH3***	900	105	3.39	53
5x10	20458652	5DH3***	1,500	127	1.95	74
5x16	20458657	5DH3***	2,400	146	1.24	99
5x25	20458659	5DH3***	3,750	184	0.795	131
5x35	20006914	5DH3***	5,250	203	0.565	162
7x1,5	20458791	5DH3***	310	86	13.7	23
7x2,5	20458792	5DH3***	520	93	8.21	30
12x1,5	20458793	5DH3***	540	117	13.7	23
12x2,5	20458796	5DH3***	900	127	8.21	30
18x1,5	20458797	5DH3***	810	117	13.7	23
24x1,5	20458799	5DH3***	1,080	134	13.7	23
24x2,5	20458800	5DH3***	1,800	146	8.21	30
30x1,5	20458811	5DH3***	1,350	148	13.7	23
30x2,5	20458812	5DH3***	2,250	162	8.21	30
36x1,5	20458813	5DH3***	1,620	148	13.7	23
36x2,5	20458814	5DH3***	2,700	167	8.21	30
44x1,5	20458815	5DH3***	1,980	163	13.7	23
44x2,5	20459124	5DH3***	3,300	186	8.21	30
56x1,5	20459125	5DH3***	2,520	195	13.7	23
56x2,5	20459126	5DH3***	4,200	216	8.21	30
24x1,5+ 12x(2E9LWL)	20459127	5DH3***	1,080	148	13.7	23
20x2,5+ 6x(3E9LWL)	20459128	5DH3***	1,500	157	8.21	30
24x2,5+ 6x(2E9LWL)	20459129	5DH3***	1,800	162	8.21	30
28x2,5+ 2x(3G50LWL)	20459130	5DH3***	2,100	162	8.21	30

Current carrying capacity acc. VDE 0298-4, Tab. 15, on a surface at 30°C ambient temperature.

Design with 12 or 24 fibers, in G62,5, G50 and E9 available upon request. Further combination with different fiber types is also possible.