

FESTOONFLEX PUR-HF 0,6/1KV

Low voltage round cables PUR sheathed for festoon application



For use as energy and control cable in festoon systems under severe conditions, incl. frequent bending. Also for drag chains, machine tools or materials handling systems. The cables are suitable for permanent use in water (no drinking water) up to 50 meter diving depth. In addition, suitable as drum reeling cable under moderate mechanical stress.

STANDARDS / APPROVALS

DIN VDE 0293-308

IEC 60332-1 / IEC 60332-2

DIN VDE 0298-4

DIN EN 60228 / IEC 60228 / VDE 0295

IEC 60754-2

Core identification

Fire performance

Electrical parameters

Conductor

Chemical behavior

CABLE DESIGN

Conductor

Core insulation material

Core arrangement

Material outer sheath

Finely stranded copper, bare, class 5

PBT

Cores twisted with short length of lay around central element

Polyurethane (PUR)

ELECTRICAL PARAMETERS

Rated voltage U₀/U (Um)

Test voltage [kV]

Nominal voltage U [V]

0.6/1 (1.2) kV

2.5

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]	-40
Ambient temperature flexible installation (max) [°C]	80

CHEMICAL PARAMETERS

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

MECHANICAL PARAMETERS

Torsional stress +/- [°/m]	25
Permanent tensile strength (rule)	15 N/mm ²
Travel speed	<ul style="list-style-type: none"> - In festoon systems: up to 210 m/min; - For reeling operation: up to 60 m/min; - In chain systems: up to 210 m/min (note: trouble free operation is influenced by several factors, among all the chain length. For long chain system we recommend to operate at lower speed)
Bending radius (rule)	6 X D

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	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
1x16	20165443	5	8.5	9.5	170
1x25	20156874	6.2	9.9	11.1	270
1x35	20154575	7.8	11.7	12.9	380
1x50	20154574	8.9	13.9	15.1	530
1x70	20154573	11.1	16.2	17.4	740
1x95	20166593	12.6	17.9	19.1	940
1x120	20156873	14.8	20.2	21.5	1,200
1x150	20317364	16	21.8	23.2	1,490
1x185	20280063	17.7	24.3	25.7	1,830
1x240	20206481	20.2	27.7	29.3	2,350
1x300	FESTOO_PUR_1kV_005	22.7	30	32	3,200
3x1,5	20180089	1.5	6.5	7.5	115
3x2,5	20156877	2	8.5	9.5	130
4x1,5	20181632	1.5	8.1	9.1	120
4x2,5	20156878	2	9.2	10.2	160
4x4	20160347	2.6	10.3	11.5	230
4x6	20181633	3.2	12.1	13.2	320
4x10	20154577	4	15	16.2	520
4x16	20156879	5	17.7	18.9	750
4x25	20160348	6.2	21.1	22.5	1,160
4x35	20181634	7.8	25.8	27.4	1,650
4x50	20173551	9.6	31	33	2,410
4x70	20181635	11.1	38.1	40.6	3,070
4x95	20181636	12.6	42	44.5	4,150
5x1,5	20317247	1.5	8	9	150
5x2,5	20300566	2	9.8	11	180
5x4	20154579	2.6	11.6	12.7	290
5x6	20154578	3.2	14	15.2	420
5x10	FESTOO_PUR_1kV_004	4	16.2	17.5	630
5x16	20166492	5	19.4	20.6	920
5x25	20283291	6.2	23.2	24.5	1,380
7x1,5	20180090	1.5	9	10	220
12x1,5	20181631	1.5	14.3	15.5	320

CABLE PROPERTIES

Basic construction	SAP code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
18x1,5	20154580	1.5	14.5	15.7	380
24x1,5	20157942	1.5	16.5	17.8	500
30x1,5	FESTOO_PUR_1kV_001	1.5	19.6	21	680
36x1,5	FESTOO_PUR_1kV_002	1.5	21.1	22.5	770
7x2,5	20166594	2	11.5	12.7	250
8x2,5	20386099	2	12.4	13.6	270
12x2,5	20160349	2	16.5	17.7	460
18x2,5	20149380	2	16.7	17.9	580
24x2,5	20149192	2	19.2	20.4	760
30x2,5	20194975	2	24.9	26.5	1,080
36x2,5	FESTOO_PUR_1kV_003	2	25.9	27.5	1,300

CABLE PROPERTIES ELECTRICAL / MECHANICAL

Basic construction	SAP code	Max. tensile strength [N]	Bending radius moving (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Current carrying capacity [A]
1x16	20165443	240	57	1.21	104
1x25	20156874	370	67	0.7839	138
1x35	20154575	520	77	0.554	170
1x50	20154574	750	91	0.386	212
1x70	20154573	1,050	104	0.272	263
1x95	20166593	1,420	115	0.206	316
1x120	20156873	1,800	130	0.161	370
1x150	20317364	2,250	139	0.129	424
1x185	20280063	2,770	154	0.106	484
1x240	20206481	3,600	176	0.0801	567
1x300	FESTOO_PUR_1kV_005	4,500	192	0.0641	651
3x1,5	20180089	60	45	13.3	24
3x2,5	20156877	110	57	7.98	32
4x1,5	20181632	90	55	13.3	24
4x2,5	20156878	150	61	7.98	32
4x4	20160347	240	69	4.95	43
4x6	20181633	360	80	3.3	56
4x10	20154577	600	97	1.91	78
4x16	20156879	960	113	1.21	104
4x25	20160348	1,500	135	0.7839	138
4x35	20181634	2,100	164	0.554	170
4x50	20173551	3,000	198	0.386	212
4x70	20181635	4,200	244	0.272	263
4x95	20181636	5,700	267	0.206	316
5x1,5	20317247	110	54	13.3	24
5x2,5	20300566	180	66	7.98	32
5x4	20154579	300	77	4.95	43
5x6	20154578	450	91	3.3	56
5x10	FESTOO_PUR_1kV_004	750	105	1.91	78
5x16	20166492	1,200	124	1.21	104
5x25	20283291	1,870	148	0.7839	138
7x1,5	20180090	150	60	13.3	24
12x1,5	20181631	270	93	13.3	24

CABLE PROPERTIES ELECTRICAL / MECHANICAL

Basic construction	SAP code	Max. tensile strength [N]	Bending radius moving (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Current carrying capacity [A]
18x1,5	20154580	400	94	13.3	24
24x1,5	20157942	540	107	13.3	24
30x1,5	FESTOO_PUR_1kV_001	670	126	13.3	24
36x1,5	FESTOO_PUR_1kV_002	810	135	13.3	24
7x2,5	20166594	260	76	7.98	32
8x2,5	20386099	300	80	7.98	32
12x2,5	20160349	450	106	7.98	32
18x2,5	20149380	670	107	7.98	32
24x2,5	20149192	900	122	7.98	32
30x2,5	20194975	1,120	159	7.98	32
36x2,5	FESTOO_PUR_1kV_003	1,350	165	7.98	32

Current carrying capacity acc. VDE 0298-4, installed free in air at 30°C ambient temperature