

FESTOONFLEX C-PUR-HF 0,6/1KV

Low voltage screened 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.

STANDARDS / APPROVALS

DIN VDE 0293-308

DIN VDE 0298-4

DIN EN 60228/ IEC 60228 / VDE 0295

IEC 60332-1 / IEC 60332-2

IEC 60754-2

Core identification

Electrical parameters

Conductor

Fire performance

Chemical behavior

CABLE DESIGN

Conductor

Core insulation material

Core arrangement

Material inner sheath

Screen construction

Screen material

Material outer sheath

Finely stranded copper, bare, class 5

PBT

Cores twisted with short length of lay around central element

Polyurethane (PUR)

Braiding

Copper, tinned

Polyurethane (PUR)

ELECTRICAL PARAMETERS

Rated voltage U₀/U (U_m)

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

Permanent tensile strength (rule)	15 N/mm ²
Travel speed	- In festoon systems: up to 210 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]
1x25	20313614	6.2	10.3	11.5	330
1x35	20161370	7.8	12.3	13.5	430
1x50	20165441	8.9	15.4	16.6	610
1x70	20157795	11.1	17	18.3	810
1x95	20181637	12.6	18.9	20.1	1,030
1x120	20156875	14.8	21.4	22.8	1,320
1x150	20313467	16	23.1	24.5	1,650
1x185	20313615	17.7	25.5	27.2	2,000
1x240	20313469	20.2	28.5	30.1	2,490
1x300	20411918	22.7	31.6	33.6	3,200
4x1,5	20270300	1.5	10.8	12	240
3X25+3x4	20448203	6.2	24.8	26.5	1,400
4x2,5	20166386	2	12.1	13.2	250
4x4	20181638	2.6	13.6	14.7	330
4x6	20161501	3.2	15.1	16.3	420
4x10	20232151	4	18.4	19.6	640
4x16	20166385	5	21.2	22.5	940
4x25	20228274	6.2	24.5	26.2	1,360
4x35	20168451	7.8	29.6	31.6	1,870
4x50	20181639	9.6	35.1	37.6	2,560
5x1,5	20333096	1.5	10.9	12.1	250
5x2,5	20234135	2	12.8	14	280
5x4	20369313	2.6	13.8	15	345
7x1,5	20166387	1.5	10.9	12.1	220
12x1,5	20156247	1.5	15	16.2	360
12x2,5	20164197	2	17.4	18.6	530
18x1,5	20157796	1.5	15	16.2	420
18x2,5	20176437	2	17.5	18.8	650
3x(2x1,5)	20360559	1.5	16.5	17.8	350
4x(2x1)	FESTOO_C_1kV_005	1.3	15.3	16.5	310
4x(2x1,5)	FESTOO_C_1kV_006	1.5	17.2	18.5	385
4x(2x1)C	20161461	1.3	15.9	17.1	350
6x(2x1)C	20160120	1.3	19	20.3	480

CABLE PROPERTIES

Basic construction	SAP code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
9x(2x1)C	20194976	1.3	23.6	25	721
2x(2x1,5)C	20164892	1.5	15.2	16.4	280
2x(2x2,5)C	FESTOO_C_1kV_001	2	17.2	18.5	340
3x(2x1,5)C	20156880	1.5	17.2	18.5	350
3x(2x2,5)C	20280062	2	17.5	18.8	390

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]
1x25	20313614	370	69	0.7839	138
1x35	20161370	520	81	0.554	170
1x50	20165441	750	100	0.386	212
1x70	20157795	1,050	110	0.272	263
1x95	20181637	1,420	121	0.206	316
1x120	20156875	1,800	137	0.161	370
1x150	20313467	2,250	147	0.129	424
1x185	20313615	2,770	163	0.106	484
1x240	20313469	3,600	181	0.0801	567
1x300	20411918	4,500	202	0.0641	651
4x1,5	20270300	90	72	13.3	24
3X25+3x4	20448203	1,125	159	0.7839	138
4x2,5	20166386	150	80	7.98	32
4x4	20181638	240	89	4.95	43
4x6	20161501	360	98	3.3	56
4x10	20232151	600	118	1.91	78
4x16	20166385	960	136	1.21	104
4x25	20228274	1,500	157	0.7839	138
4x35	20168451	2,100	190	0.554	170
4x50	20181639	3,000	226	0.386	212
5x1,5	20333096	110	73	13.3	24
5x2,5	20234135	180	84	7.98	32
5x4	20369313	300	90	4.95	43
7x1,5	20166387	150	73	13.3	24
12x1,5	20156247	270	97	13.3	24
12x2,5	20164197	450	112	7.98	32
18x1,5	20157796	400	97	13.3	24
18x2,5	20176437	670	113	7.98	32
3x(2x1,5)	20360559	130	107	13.3	24
4x(2x1)	FESTOO_C_1kV_005	120	99	19.5	19
4x(2x1,5)	FESTOO_C_1kV_006	180	111	13.3	24
4x(2x1)C	20161461	120	103	19.5	19
6x(2x1)C	20160120	180	122	19.5	19

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]
9x(2x1)C	20194976	270	150	19.5	19
2x(2x1,5)C	20164892	90	98	13.3	24
2x(2x2,5)C	FESTOO_C_1kV_001	150	111	7.98	32
3x(2x1,5)C	20156880	130	111	13.3	24
3x(2x2,5)C	20280062	220	113	7.98	32

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