



■ Application

FESTOON PUR-HF have reduced outer diameters, weight and minimum bending radius compared to NSHTÖU cables. It makes possible to applied with smaller drive motors and reels, saving the cost. The cables are used for high mechanical stress and torsion stress, especially for applications with frequent winding and unwinding, for example for building machines, conveyer belts and cranes, Extra-flexible cable for cable reel, cable drag chain. Cables are used as stable and weather resistant cables for the most difficult operations in mine and manipulation devices. PUR outer sheath these cables are resistant against ozone, radiation, low temperature, abrasion, climatic influences, oils, lipids, and petrol. The cables are suitable for installation in dry, damp and wet environments as well as outdoors.

Design

Conductor	: Circular flexible, bare copper conductor (tinned conductor on request)
Conductor class	: DIN VDE 0295 class 5 resp. IEC 60228 cl.5
Insulation	: Special PUR compound
Core identification	: Acc. to DIN VDE 0293-308 up to 5 wires colored, from 6 wires white with black numerals with or without GNYE
Lay up & support element layers	: Central aramid (kevlar) strength member, cores laid up in concentric with short length of layers
Beading	: Textile tape
Inner sheath	: Special PUR compound
Sheath reinforcement	: Anti torsion textile braided embedded sheath
Outer sheath	: Special PUR compound
Outer sheath color	: Black

Design features

Construction	: DIN VDE 0250-814
General requirements	: DIN VDE 0250
Guide to use	: DIN VDE 0298-3
Under fire conditions tests	: DIN VDE 0472-803, 804
Flame retardant	: VDE 0482-332-1-2, DIN EN 60322-1-2, IEC 60332-1
Oil resistant	: DIN EN60811-2-1
Halogen-free	: EN50267-2-3, IEC60754-2
Resistance to UV rays	
Abrasion resistance	
Good resistance to chemical agents	
Highly flexible	
Excellent resistance to water	

Operating characteristics

Rated voltage	: 0.6/1 kV
Test voltage	: 2.5 kV
Conductor operating temperature	: Max. 90°C
Conductor short – circuit temperature	: Max. 200°C
Working temperature fixed	: -50°C to +90°C
Working temperature mobile	: -40°C to +90°C
Min. bending radius	: 6 X OD
Current carrying capacities	: VDE 0298-4
Travel Speed in reeling applications	: up to 120 m/min horizontal
Max. tensile load of cable	: 15 N/mm ²

Part NO.	Core x Conductor size (mm ²)	Outer Dia.* (mm)	Max. Tensile load of Cable (N)	Weight* (kg/km)	Conductor Resistance @ 20°C (Ohm/km)
798301 500411	4G1.5	10.0	90	155	13.3
798301 500511	5G1.5	10.6	113	178	13.3
798301 500711	7G1.5	12.1	158	218	13.3
798301 501211	12G1.5	15.4	270	363	13.3
798301 501811	18G1.5	16.3	405	459	13.3
798301 502411	24G1.5	18.7	540	590	13.3
798301 503011	30G1.5	21.6	675	720	13.3
798301 504211	42G1.5	25.0	945	920	13.3
798302 500411	4G2.5	11.1	150	208	7.98
798302 500511	5G2.5	11.8	188	230	7.98
798302 500711	7G2.5	13.3	263	315	7.98
798302 501211	12G2.5	18.5	450	485	7.98
798302 501811	18G2.5	20.6	675	679	7.98
798302 502411	24G2.5	21.2	900	860	7.98
798302 503011	30G2.5	25.4	1125	1080	7.98
798302 503611	36G2.5	27.0	1350	1320	7.98
798304 000411	4G4	12.2	240	281	4.95
798304 001411	14G4	22.7	840	800	4.95
798306 000411	4G6	13.3	360	372	3.30
798307 100411	4G10	17.1	600	615	1.91
798307 160411	4G16	19.9	960	924	1.21
798307 250411	4G25	22.9	1500	1222	0.780
798307 350411	4G35	27.2	2100	1778	0.554
798304 000511	5G4	13.1	300	318	4.95
798306 000511	5G6	14.5	450	435	3.30
798307 100511	5G10	18.5	750	704	1.91
798307 160511	5G16	23.3	1200	1067	1.21
798307 161211	4G16+2x(4x1.5)C	23.8	1140	1175	1.21/13.3
798304 001511	5G4+10x2.5	19.0	675	660	4.95/7.98
798302 502411	19G2.5+5x1.5C	21.2	825	850	7.98/13.3
798301 503011	25G1.5+5x1.5C	21.0	675	704	13.3
798301 000611	3x(2x1)C	15.1	90	420	19.5
798301 001211	6x(2x1)C	21.0	180	597	19.5
798302 500711	3x(2.5)+2x(2x1.5)C	20.5	203	650	7.98/13.3
798302 501011	6x(2.5)+2x(2x1.5)C	26.3	315	1033	7.98/13.3
798302 504811	8x6G2.5	42.2	1800	2485	7.98

* คือค่าโดยประมาณ

* It is approximate value

- ความยาวมาตรฐาน คือ 100 ม., 500 ม. และ 1,000 ม. ขึ้นอยู่กับขนาดเส้นผ่านศูนย์กลางของสายไฟ

- Standard length is 100 m, 500 m and 1,000 m depend on OD of cable