



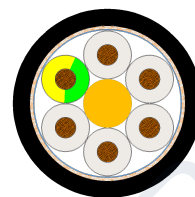
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

FESTOONFLEX C-PUR-HF CABLE

Screened festoon cable for high mechanical requirements



APPLICATION

Screened power and control cable for very high mechanical requirements, frequent bending, trolley systems, drag chains and conveyor facilities. Suitable for dry, humid and wet rooms, outdoor use and permanent use in water up to 50 m depth.

CONSTRUCTION

Component	Description
Conductor	Class 5 flexible stranded tinned copper
Insulation	HF halogen-free compound based on polyester
Lay up	Central textile strength member; cores laid up in concentric layers with short length of lay
Inner sheath	Polyurethane
Screen	Tinned copper braid; approx. 85% coverage
Strength member	Textile self-supporting element
Outer sheath	Polyurethane
Core identification	Colours according to VDE 0293 (HD 308); more than 5 cores: green/yellow plus numbers
Sheath colour	Black

CHARACTERISTICS

- Fine stranded bare copper conductor with textile self-supporting element.
- Tinned copper braid screen with approx. 85% coverage.
- Polyurethane insulation, inner sheath and outer sheath.
- Halogen-free, UV-resistant and oil-resistant construction.

OPERATING CHARACTERISTICS

Parameter	Value
Voltage rating U _o /U	0.6/1 kV
Fixed installation	-50 °C to +80 °C
Mobile operation	-40 °C to +80 °C
Minimum bending radius	6 x overall diameter fixed; 8 x overall diameter mobile
Maximum conductor temperature	+90 °C
Test voltage	4 kV
Travel speed	Festoon up to 210 m/min; drag chain up to 210 m/min

STANDARDS

Parameter	Value
Conductor	Class 5 fine stranded copper according to DIN EN IEC 60228 (VDE 0295)
Flame performance	VDE 0482-332-1-2 / IEC 60332-1-2
Halogen-free	Yes
UV resistance	Yes
Oil resistance	DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404
Additional	Suitable for permanent use in water up to 50 m depth; outdoor use

TECHNICAL DATA

Nominal dimensional data from the source technical sheet; source ordering codes omitted.

DIMENSIONS				
No. of cores	Nominal cross sectional area mm2	Nominal overall diameter min. mm	Nominal overall diameter max. mm	Nominal weight kg/km
1	25	10.3	11.5	330
1	35	12.3	13.5	430
1	50	15.4	16.6	610
1	70	17.0	18.3	810
1	95	18.9	20.1	1030
1	120	21.4	22.8	1320
1	150	23.1	24.5	1650
1	185	25.5	27.2	2000
1	240	28.5	30.1	2490
1	300	31.6	33.6	3200
4	1.5	10.8	12.0	240
5	1.5	10.9	12.1	250
7	1.5	10.9	12.1	220
12	1.5	15.0	16.2	360
18	1.5	15.0	16.2	420
4	2.5	12.1	13.2	250
5	2.5	12.8	14.0	280
12	2.5	17.4	18.6	530
18	2.5	17.5	18.8	650
4	4	13.6	14.7	330
4	6	15.1	16.3	420
4	10	18.4	19.6	640
4	16	21.2	22.5	940
4	25	24.5	26.2	1360
4	35	29.6	31.6	1870
4	50	35.1	37.6	2560
4	70	44.5		3070
5	16	24.2		920
4	2x1.5	17.2	18.5	385
4	2x2.5	21.7		340

NOTES

- Outer diameters are approximate; the source lists minimum and maximum values where available.
- Ampacity values are stated for air at 30 deg C; source part numbers have been omitted.
- Fzp tensile strength is permanent tensile strength; Cu and G are copper and net weight values.

CERTIFICATIONS



TEBAOFLEX CABLE