



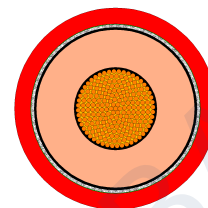
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

NTMCGCWÖU

3.6/6 kV to 18/30 kV flexible single-core medium-voltage cable



APPLICATION

Flexible screened single-core medium-voltage cable for connecting switchgear cubicles, mobile transformers and substations to overhead lines. Suitable for mining and other industrial power distribution applications where flexibility, concentric screening and resistance to moisture, flame, UV radiation, sunlight, ozone and oil are required.

CONSTRUCTION

Component	Description
Conductor	Annealed flexible stranded tin-coated copper, class 5 to IEC 60228 and HD 383
Conductor screen	Semi-conductive tape and semi-conductive layer between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR) type 3GI3 according to DIN VDE 0207 Part 20
Insulation screen	Semi-conductive layer over insulation with warp or braid of tinned copper wires
Separator	Synthetic tape wrap
Outer jacket	Synthetic thermosetting compound type 5GM3 according to DIN VDE 0207 Part 21
Jacket colour	Red; other colours available

CHARACTERISTICS

- Medium-voltage flexible single-core cable with concentric screen.
- Moisture resistant and flame retardant.
- UV, sunlight, ozone and oil resistant.
- Suitable for mobile and fixed installations within the stated temperature ranges.
- RoHS compliant.

OPERATING CHARACTERISTICS

Parameter	Unit	Value
Cable standard		DIN VDE 0250 Part 813
Rated voltage U_0/U	kV	3.6/6; 6/10; 12/20; 18/30
Mobile installation temperature	°C	-25 to +90
Fixed installation temperature	°C	-40 to +90
Maximum conductor temperature	°C	+90
Regulatory compliance		RoHS

PACKING

Standard length cable packing 1000 m on drums; other packing and delivery forms available on request.

TECHNICAL DATA

DIMENSIONS AND CURRENT RATING (1 OF 2)

Nominal and approximate values by rated-voltage group.

Size mm2	Nominal insulation thickness mm	Nominal jacket thickness mm	Approx. overall diameter mm	Approx. weight kg/km	Current rating at 30 °C in air A
3.6/6 kV					
1x16/16	3.4	2.20	20.3	720	141
1x25/16	3.4	2.20	21.5	828	187
1x35/16	3.4	2.20	22.2	933	231
1x50/16	3.4	2.20	24.2	1119	288
1x70/16	3.4	2.50	26.6	1384	357
1x95/16	3.4	2.50	28.7	1637	430
1x120/16	3.4	2.50	29.8	1888	503
1x150/25	3.4	3.00	32.7	2382	577
1x185/25	3.4	3.00	34.9	2725	658
6/10 kV					
1x16/16	3.4	2.2	21.1	755	141
1x25/16	3.4	2.2	22.3	864	187
1x35/16	3.4	2.2	23.0	970	231
1x50/16	3.4	2.5	25.6	1197	289
1x70/16	3.4	2.5	27.4	1429	356
1x95/16	3.4	2.5	29.5	1686	430
1x120/16	3.4	3.0	31.6	2016	503
1x150/25	3.4	3.0	33.5	2438	577
1x185/25	3.4	3.5	35.7	2785	658

NOTES

- Current ratings are stated for 30 °C ambient temperature in air.
- Cable dimensions and weights are approximate.

TECHNICAL DATA

DIMENSIONS AND CURRENT RATING (2 OF 2)

Nominal and approximate values by rated-voltage group.

Size mm2	Nominal insulation thickness mm	Nominal jacket thickness mm	Approx. overall diameter mm	Approx. weight kg/km	Current rating at 30 °C in air A
12/20 kV					
1x16/16	5.5	2.50	25.9	994	150
1x25/16	5.5	2.50	27.1	1116	198
1x35/16	5.5	2.50	27.8	1230	245
1x50/16	5.5	2.50	29.8	1440	307
1x70/16	5.5	3.00	32.6	1767	379
1x95/16	5.5	3.00	34.7	2048	456
1x120/16	5.5	3.00	35.8	2312	531
1x150/25	5.5	3.50	38.7	2846	611
1x185/25	5.5	3.50	40.9	3218	698
18/30 kV					
1x16/16	8.0	3.00	31.9	1368	150
1x25/16	8.0	3.00	33.1	1505	198
1x35/16	8.0	3.00	33.8	1629	245
1x50/16	8.0	3.00	35.8	1866	307
1x70/16	8.0	3.50	38.6	2230	379
1x95/16	8.0	3.50	40.7	2539	456
1x120/16	8.0	3.50	41.8	2818	531
1x150/25	8.0	3.50	43.7	3284	611
1x185/25	8.0	3.50	45.9	3680	698

NOTES

- Current ratings are stated for 30 °C ambient temperature in air.
- Cable dimensions and weights are approximate.

CERTIFICATIONS

