



MV single-core rubber cable

NTMCGCWÖU

Flexible MV Single-Core Cable

Screened single-core MV rubber cable for switchgear, transformers and mobile substations



DIN VDE 0250-813

U0/U 3.6/6-18/30 kV

1C + concentric Cu screen

Application

Flexible single-core medium-voltage rubber cable to DIN VDE 0250-813 (3.6/6 kV to 18/30 kV) with Class 5 tinned copper conductor, 3GI3 EPR insulation, concentric copper wire screen and heavy-duty red 5GM3/5GM5 sheath.

Typical uses: MV switchgear cubicles & busbar transitions, Mobile transformer substations & switch stations, Mining & tunnelling power distribution, Large industrial MV variable-speed drives, Railway rolling stock & traction substations

Construction



Cross-section, not to scale

1 Phase conductorIEC 60228 Class 5 / HD 383
/ DIN VDE 0295**2** Inner conductor screen**3** Core insulation**4** Outer insulation screenDIN VDE 0250-813 radial
field control**5** Concentric copper screen**6** Separator tape**7** Outer sheath

Technical data

Typical values

Rated voltage U0/U	3.6/6, 6/10, 12/20, 18/30 kV (8.7/15 kV on request)	Max. operating voltage AC	4.2/7.2 · 6.9/12 · 13.9/24 · 20.8/36 kV
AC test voltage	11 kV (3.6/6) · 17 kV (6/10) · 29 kV (12/20) · 43 kV (18/30)	Concentric screen	16 mm ² (up to 120 mm ²) · 25 mm ² (150–240 mm ²) tinned Cu
Current rating	141 to 698 A at 30 °C in air (DIN VDE 0298-4)	Ambient temperature, flexing	–25 to +60 °C (conductor +90 °C)
Ambient temperature, fixed	–40 to +80 °C (conductor +90 °C)	Max. conductor temperature	+90 °C continuous · +250 °C short-circuit
Min. bending radius, fixed	6 × OD	Min. bending radius, flexing	10 × OD (12 × OD forced guidance)
Max. tensile load	15 N/mm ² of copper conductor cross-section	Oil, UV & ozone	Oil, UV, sunlight, ozone and moisture resistant
Flame retardance	Flame retardant (IEC 60332-1-2)	Standards	DIN VDE 0250-813
Standard packing	Heat-treated timber export drums, lagged and end-sealed		

Sizes

38 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation · grade	U0/U kV	Phase / Screen mm ²	Insulation mm	Sheath mm	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R (fixed) mm	Max. pull N	Current 30 °C A (in air)
3.6/6 kV 9 sizes									
☐ NTMCGCWÖU 1 × 16 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 16 / 16	3.4	2.2	20.3	720	122	240	141
☐ NTMCGCWÖU 1 × 25 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 25 / 16	3.4	2.2	21.5	828	129	375	187
☐ NTMCGCWÖU 1 × 35 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 35 / 16	3.4	2.2	22.2	933	133	525	231
☐ NTMCGCWÖU 1 × 50 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 50 / 16	3.4	2.2	24.2	1,119	145	750	288
☐ NTMCGCWÖU 1 × 70 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 70 / 16	3.4	2.5	26.6	1,384	160	1,050	357
☐ NTMCGCWÖU 1 × 95 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 95 / 16	3.4	2.5	28.7	1,637	172	1,425	430
☐ NTMCGCWÖU 1 × 120 / 16 mm ² · 3.6/6 kV	3.6/6	1 × 120 / 16	3.4	2.5	29.8	1,888	179	1,800	503
☐ NTMCGCWÖU 1 × 150 / 25 mm ² · 3.6/6 kV	3.6/6	1 × 150 / 25	3.4	3.0	32.7	2,382	196	2,250	577
☐ NTMCGCWÖU 1 × 185 / 25 mm ² · 3.6/6 kV	3.6/6	1 × 185 / 25	3.4	3.0	34.9	2,725	209	2,775	658
6/10 kV 10 sizes									
☐ NTMCGCWÖU 1 × 16 / 16 mm ² · 6/10 kV	6/10	1 × 16 / 16	3.4	2.2	21.1	755	127	240	141
☐ NTMCGCWÖU 1 × 25 / 16 mm ² · 6/10 kV	6/10	1 × 25 / 16	3.4	2.2	22.3	864	134	375	187
☐ NTMCGCWÖU 1 × 35 / 16 mm ² · 6/10 kV	6/10	1 × 35 / 16	3.4	2.2	23.0	970	138	525	231
☐ NTMCGCWÖU 1 × 50 / 16 mm ² · 6/10 kV	6/10	1 × 50 / 16	3.4	2.5	25.6	1,197	154	750	289
☐ NTMCGCWÖU 1 × 70 / 16 mm ² · 6/10 kV	6/10	1 × 70 / 16	3.4	2.5	27.4	1,429	164	1,050	356
☐ NTMCGCWÖU 1 × 95 / 16 mm ² · 6/10 kV	6/10	1 × 95 / 16	3.4	2.5	29.5	1,686	177	1,425	430
☐ NTMCGCWÖU 1 × 120 / 16 mm ² · 6/10 kV	6/10	1 × 120 / 16	3.4	3.0	31.6	2,016	190	1,800	503
☐ NTMCGCWÖU 1 × 150 / 25 mm ² · 6/10 kV	6/10	1 × 150 / 25	3.4	3.0	33.5	2,438	201	2,250	577
☐ NTMCGCWÖU 1 × 185 / 25 mm ² · 6/10 kV	6/10	1 × 185 / 25	3.4	3.5	35.7	2,785	214	2,775	658
☐ NTMCGCWÖU 1 × 240 / 25 mm ² · 6/10 kV	6/10	1 × 240 / 25	3.4	3.5	41.6	3,460	250	3,600	–
12/20 kV 9 sizes									
☐ NTMCGCWÖU 1 × 16 / 16 mm ² · 12/20 kV	12/20	1 × 16 / 16	5.5	2.5	25.9	994	155	240	150
☐ NTMCGCWÖU 1 × 25 / 16 mm ² · 12/20 kV	12/20	1 × 25 / 16	5.5	2.5	27.1	1,116	163	375	198
☐ NTMCGCWÖU 1 × 35 / 16 mm ² · 12/20 kV	12/20	1 × 35 / 16	5.5	2.5	27.8	1,230	167	525	245
☐ NTMCGCWÖU 1 × 50 / 16 mm ² · 12/20 kV	12/20	1 × 50 / 16	5.5	2.5	29.8	1,440	179	750	307
☐ NTMCGCWÖU 1 × 70 / 16 mm ² · 12/20 kV	12/20	1 × 70 / 16	5.5	3.0	32.6	1,767	196	1,050	379

Designation · grade	U0/U kV	Phase / Screen mm ²	Insulation mm	Sheath mm	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R (fixed) mm	Max. pull N	Current 30 °C A (in air)
☐ NTMCGCWÖU 1 × 95 / 16 mm ² · 12/20 kV	12/20	1 × 95 / 16	5.5	3.0	34.7	2,048	208	1,425	456
☐ NTMCGCWÖU 1 × 120 / 16 mm ² · 12/20 kV	12/20	1 × 120 / 16	5.5	3.0	35.8	2,312	215	1,800	531
☐ NTMCGCWÖU 1 × 150 / 25 mm ² · 12/20 kV	12/20	1 × 150 / 25	5.5	3.5	38.7	2,846	232	2,250	611
☐ NTMCGCWÖU 1 × 185 / 25 mm ² · 12/20 kV	12/20	1 × 185 / 25	5.5	3.5	40.9	3,218	245	2,775	698
18/30 kV 10 sizes									
☐ NTMCGCWÖU 1 × 16 / 16 mm ² · 18/30 kV	18/30	1 × 16 / 16	8.0	3.0	31.9	1,368	191	240	150
☐ NTMCGCWÖU 1 × 25 / 16 mm ² · 18/30 kV	18/30	1 × 25 / 16	8.0	3.0	33.1	1,505	199	375	198
☐ NTMCGCWÖU 1 × 35 / 16 mm ² · 18/30 kV	18/30	1 × 35 / 16	8.0	3.0	33.8	1,629	203	525	245
☐ NTMCGCWÖU 1 × 50 / 16 mm ² · 18/30 kV	18/30	1 × 50 / 16	8.0	3.0	35.8	1,866	215	750	307
☐ NTMCGCWÖU 1 × 70 / 16 mm ² · 18/30 kV	18/30	1 × 70 / 16	8.0	3.5	38.6	2,230	232	1,050	379
☐ NTMCGCWÖU 1 × 95 / 16 mm ² · 18/30 kV	18/30	1 × 95 / 16	8.0	3.5	40.7	2,539	244	1,425	456
☐ NTMCGCWÖU 1 × 120 / 16 mm ² · 18/30 kV	18/30	1 × 120 / 16	8.0	3.5	41.8	2,818	251	1,800	531
☐ NTMCGCWÖU 1 × 150 / 25 mm ² · 18/30 kV	18/30	1 × 150 / 25	8.0	3.5	43.7	3,284	262	2,250	611
☐ NTMCGCWÖU 1 × 185 / 25 mm ² · 18/30 kV	18/30	1 × 185 / 25	8.0	3.5	45.9	3,680	275	2,775	698
☐ NTMCGCWÖU 1 × 240 / 25 mm ² · 18/30 kV	18/30	1 × 240 / 25	8.0	3.5	51.8	4,485	311	3,600	–

– Current ratings in air at 30 °C ambient (DIN VDE 0298-4). For a three-phase circuit using three single-core cables, apply grouping and trefoil/flat spacing factors per DIN VDE 0298-4.

Standards and approvals

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

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Email

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Web

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Typical values for this cable type, based on DIN VDE 0250-813. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.