



Reeling cable

6-CHCU-TT

Mining Reeling Cable

0.6/1 kV (1.1 kV mining) Tout-Terrain EPR/PCP reeling cable for scooptrams and jumbos

NF M 82-375 / VDE 0250-812

U0/U 0.6/1 kV (1.1 kV mining)

Tout-Terrain Dual PCP

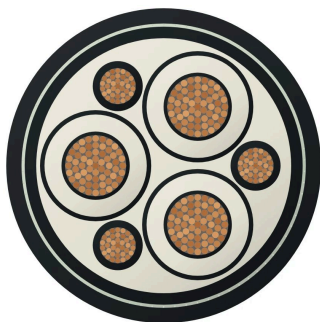
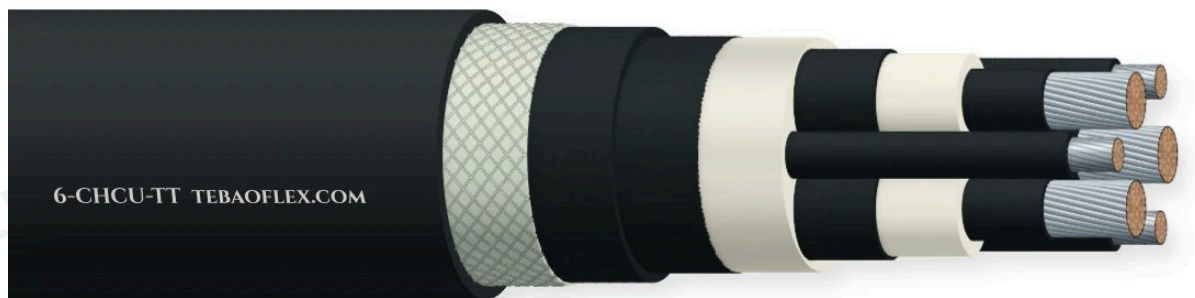


Application

Built to NF M 82-375 and DIN VDE 0250-812 for underground scooptrams, shuttle cars, drill jumbos and quarry reeling drums up to 80 m/min, with Class 5 tinned copper conductors, 3G13 EPR insulation and reinforced dual 5GM5.

Typical uses: Underground scooptrams & shuttle cars, Mining drill jumbos & bolters, Quarry crushers & mobile conveyors, Tunnel excavation & dewatering, Potash, coal & hard-rock mines

Construction



Cross-section, not to scale

- 1 Flexible tinned copper conductor

IEC 60228 Class 5 / NF C 32-013

- 2 Core insulation

- 3 Core assembly & optional pilot cores

- 4 Inner sheath

- 5 Textile mechanical reinforcement

- 6 Outer sheath (Tout-Terrain)

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (up to 1.1 kV mining service)	Max. operating voltage AC	0.7/1.2 kV
Max. operating voltage DC	0.9/1.8 kV	AC test voltage (5 min)	3.5 kV AC (power) · 2.0 kV AC (pilot)
Current rating basis	DIN VDE 0298-4 / NF C 15-100 (30 °C in air)	Temperature, flexing	-25 to +80 °C
Temperature, fixed	-40 to +80 °C	Max. conductor temperature	+90 °C
Short-circuit temperature (5 s)	+250 °C	Min. bending radius, moving	5 × OD trailing · 6 × OD drum reeling
Min. bending radius, fixed	4 × OD	Max. reeling speed	80 m/min
Max. tensile load	15 N/mm ² perm. · 20 N/mm ² dynamic	Torsional stress	± 50 °/m
Oil resistance	EN 60811-404 (mineral & hydraulic oils)	Flame retardance	IEC 60332-1-2 / NF C 32-070 C2
Abrasion & impact resistance	Tout-Terrain 5GM5 polychloroprene sheath	Water & mine dampness	AD7 / HD 22.16 submersible in mine water
Standards	NF M 82-375 / DIN VDE 0250-812	Standard packing	ISPM-15 heat-treated lagged drums with sealed moisture-proof ends

Sizes

18 standard constructions

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

Order designation	Cores × mm ²	Phase AWG ≈	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Perm. pull N
4G / 5G symmetrical power (4–35 mm ²) 7 sizes							
☐ 6-CHCU-TT 4G4	4 × 4	12	19.0	154	495	114	240
☐ 6-CHCU-TT 4G6	4 × 6	10	20.8	230	635	125	360
☐ 6-CHCU-TT 4G10	4 × 10	8	24.8	384	985	149	600
☐ 6-CHCU-TT 4G16	4 × 16	6	28.8	614	1,340	173	960
☐ 6-CHCU-TT 4G25	4 × 25	4	34.8	960	1,980	209	1,500
☐ 6-CHCU-TT 4G35	4 × 35	2	38.2	1,344	2,580	229	2,100
☐ 6-CHCU-TT 5G16	5 × 16	6	31.2	768	1,650	187	1,200
3 × Phase + Reduced Earth (16–150 mm ²) 7 sizes							
☐ 6-CHCU-TT 3×25+16	3 × 25 + 1 × 16	4	32.8	874	1,790	197	1,125
☐ 6-CHCU-TT 3×35+16	3 × 35 + 1 × 16	2	36.0	1,162	2,210	216	1,575
☐ 6-CHCU-TT 3×50+25	3 × 50 + 1 × 25	1	41.2	1,680	3,010	247	2,250
☐ 6-CHCU-TT 3×70+35	3 × 70 + 1 × 35	2/0	46.4	2,352	3,990	278	3,150
☐ 6-CHCU-TT 3×95+50	3 × 95 + 1 × 50	3/0	52.6	3,216	5,290	316	4,275
☐ 6-CHCU-TT 3×120+70	3 × 120 + 1 × 70	4/0	57.8	4,128	6,540	347	5,400
☐ 6-CHCU-TT 3×150+70	3 × 150 + 1 × 70	300 kcmil	62.4	4,992	7,740	374	6,750
3 × Phase + Earth + Pilot (16–95 mm ²) 4 sizes							
☐ 6-CHCU-TT 3×25+16+1×2.5	3 × 25 + 16 + 1 × 2.5	4	33.8	898	1,880	203	1,125
☐ 6-CHCU-TT 3×35+16+1×2.5	3 × 35 + 16 + 1 × 2.5	2	37.0	1,186	2,310	222	1,575
☐ 6-CHCU-TT 3×50+25+1×2.5	3 × 50 + 25 + 1 × 2.5	1	42.2	1,704	3,130	253	2,250
☐ 6-CHCU-TT 3×95+50+1×2.5	3 × 95 + 50 + 1 × 2.5	3/0	53.6	3,240	5,420	322	4,275

- TT = Tout-Terrain heavy-duty dual polychloroprene (5GM3 / 5GM5) sheath system for underground and surface mining.
- For severe torsional reeling over multi-plane diversion rollers (> ±50 °/m), specify 6-CHCU TTAR.

Electrical & current data

11 sizes

Phase CSA mm ²	Max. DC resistance 20 °C, Ω/km	Current rating in air 30 °C, A	1 s short-circuit kA	Dynamic pull (20 N/mm ²) N (3-phase)
4	5.090	41	0.57	240
6	3.390	53	0.86	360
10	1.950	74	1.43	600
16	1.240	99	2.29	960
25	0.795	131	3.58	1,500
35	0.565	162	5.01	2,100
50	0.393	202	7.15	3,000
70	0.277	250	10.01	4,200
95	0.210	301	13.59	5,700
120	0.164	352	17.16	7,200
150	0.132	404	21.45	9,000

– Current ratings apply to a single cable in free air at 30 °C; derate for cylindrical drum layers 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.

WhatsApp / phone

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Email

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Web

tebaoflex.com/cables/6-chcu-tt-mining-reeling-cable



Typical values for this cable type, based on NF M 82-375 / DIN VDE 0250-812. Values for your order are confirmed in the quotation. Subject to change without notice.
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