



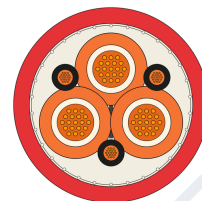
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

WG / WG-D HEAVY-DUTY REELING PCP CABLE

Rubber round reeling cable for motorized power and data reels



APPLICATION

Rubber round reeling cable for motorized cable reels, container-crane main power supply, heavy mining equipment, stackers, reclaimers and ship unloaders. WG-D versions combine power conductors with optical-fiber data transfer.

CONSTRUCTION

Parameter	Value
Conductor	Highly flexible, finely stranded tinned copper; Class FS
Core insulation	Triple, simultaneously extruded HV-EPR with semiconducting inner and outer layers
Conductor coding	Black insulation with white numbers
Inner sheath	Double layer, EPR compound type 5GM3
Anti-torsion braid	Embedded supporting mesh / braid
Outer sheath	Double layer, rubber compound type 5GM5; PCP / polychloroprene
Jacket colour	Red
Design codes	(N)TSCGEWOEU; (N)TSCGEWOEU-FO

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U0/U	3.6/6 kV to 12/20 kV
Maximum AC operating voltage	4.2/7.2 kV to 14/24 kV
Maximum DC operating voltage	5.4/10.8 kV to 18/36 kV
Travel speed	Up to 120 m/min horizontal
Ambient temperature, flexing	-35 °C to +90 °C
Ambient temperature, fixed	-50 °C to +90 °C
Maximum conductor temperature	+90 °C
Short-circuit conductor temperature	+250 °C
Minimum bending radius	According to DIN VDE 0298 Part 3
S-track curve distance	20 x diameter
Tensile load capacity	20 N/mm ²

PERFORMANCE AND USE

Parameter	Value
Flame performance	Flame-retardant according to DIN VDE 0482 Part 265-2-1 / IEC 60332-1
Halogen-free	No
Ozone resistance	Yes
Oil resistance	Yes
UV resistance	Yes
Humidity resistance	Yes
Sulphur resistance	No
Urea resistance	No
LBS / silicone-free	No
Typical applications	Motorized cable reels, container cranes, heavy mining equipment, stackers, reclaimers and ship unloaders
Operating profile	Small to medium dynamic loads; low to medium reeling duty cycle; maximum one diversion roller assembly

TECHNICAL DATA

Nominal dimensional data from the source technical sheet; source ordering codes and minimum order quantities omitted.

WG POWER CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper kg/km	Weight kg/km	Tensile load N
WG 3.6/6 kV	3x25 + 3x25/3	38.0 - 41.0	1008	2585	1500
WG 3.6/6 kV	3x35 + 3x25/3	41.0 - 44.0	1296	3041	2100
WG 3.6/6 kV	3x50 + 3x25/3	44.0 - 47.0	1728	3675	3000
WG 3.6/6 kV	3x70 + 3x35/3	50.0 - 54.0	2477	4606	4200
WG 3.6/6 kV	3x95 + 3x50/3	54.0 - 58.0	3197	5678	5700
WG 6/10 kV	3x25 + 3x25/3	39.0 - 42.0	1008	2725	1500
WG 6/10 kV	3x35 + 3x25/3	42.0 - 45.0	1296	3191	2100
WG 6/10 kV	3x50 + 3x25/3	45.0 - 48.0	1728	3838	3000
WG 6/10 kV	3x70 + 3x35/3	51.0 - 55.0	2477	4870	4200

TECHNICAL DATA

WG POWER CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper kg/km	Weight kg/km	Tensile load N
WG 6/10 kV	3x95 + 3x50/3	55.0 - 59.0	3197	5896	5700
WG 8.7/15 kV	3x25 + 3x25/3	42.0 - 45.0	1008	3027	1500
WG 8.7/15 kV	3x35 + 3x25/3	45.0 - 49.0	1296	3664	2100
WG 8.7/15 kV	3x50 + 3x25/3	49.0 - 53.0	1728	4356	3000
WG 8.7/15 kV	3x70 + 3x35/3	53.0 - 57.0	2477	5406	4200
WG 8.7/15 kV	3x95 + 3x50/3	58.0 - 62.0	3197	6469	5700
WG 12/20 kV	3x25 + 3x25/3	44.0 - 47.0	1008	3242	1500
WG 12/20 kV	3x35 + 3x25/3	47.0 - 50.0	1296	3777	2100

TECHNICAL DATA

WG-D POWER & DATA CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper kg/km	Weight kg/km	Tensile load N
WG-D 3.6/6 kV	3x25 + 2x25/2 + 12FO	41.0 - 44.0	1008	2916	1500
WG-D 3.6/6 kV	3x35 + 2x25/2 + 12FO	44.0 - 47.0	1296	3301	2100
WG-D 3.6/6 kV	3x50 + 2x25/2 + 12FO	44.0 - 47.0	1728	3674	3000
WG-D 3.6/6 kV	3x70 + 2x35/2 + 12FO	50.0 - 54.0	2477	4622	4200
WG-D 3.6/6 kV	3x95 + 2x50/2 + 12FO	54.0 - 58.0	3197	5682	5700
WG-D 6/10 kV	3x25 + 2x25/2 + 12FO	41.0 - 44.0	1008	2916	1500
WG-D 6/10 kV	3x35 + 2x25/2 + 12FO	44.0 - 47.0	1296	3301	2100
WG-D 6/10 kV	3x50 + 2x25/2 + 12FO	45.0 - 48.0	1728	3836	3000
WG-D 6/10 kV	3x70 + 2x35/2 + 12FO	51.0 - 55.0	2477	4871	4200
WG-D 6/10 kV	3x95 + 2x50/2 + 12FO	55.0 - 59.0	3197	5898	5700
WG-D 8.7/15 kV	3x25 + 2x25/2 + 12FO	44.0 - 47.0	1008	3025	1500
WG-D 8.7/15 kV	3x35 + 2x25/2 + 12FO	47.0 - 51.0	1296	3650	2100
WG-D 8.7/15 kV	3x50 + 2x25/2 + 12FO	49.0 - 53.0	1728	4353	3000
WG-D 8.7/15 kV	3x70 + 2x35/2 + 12FO	53.0 - 57.0	2477	5407	4200
WG-D 8.7/15 kV	3x95 + 2x35/2 + 12FO	58.0 - 62.0	3197	6471	5700

TECHNICAL DATA

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage	3.6/6 kV to 12/20 kV
Maximum AC operating voltage	4.2/7.2 kV to 14/24 kV
Maximum DC operating voltage	5.4/10.8 kV to 18/36 kV
AC test voltage	According to DIN VDE 0250 Part 813
Ampacity	According to DIN VDE 0298-4
Flexing temperature	-35 °C to +80 °C
Fixed temperature	-50 °C to +80 °C
Maximum conductor temperature	+90 °C
Short-circuit temperature	+250 °C
Minimum bending radius	According to DIN VDE 0298 Part 3
S-track curve distance	20 x diameter
Tensile load capacity	20 N/mm ²
Conductor	Tinned copper, very fine stranded, Class FS
Insulation	Rubber compound type 3GI3; black with white numbers
Inner sheath	Double layer EPR compound type 5GM3
Anti-torsion braid	Yes
Outer sheath	Double layer rubber compound type 5GM5
Design codes	(N)TSCGEWOEU and (N)TSCGEWOEU-FO
Colour	Red
Fire behaviour	Flame-retardant according to IEC 60332-1

CERTIFICATIONS



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