



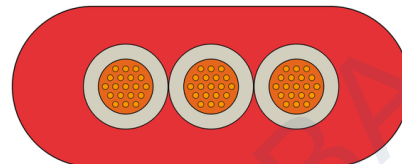
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

WG / WGF-D HEAVY-DUTY FLAT REELING EPR CABLE

Flat rubber reeling cable for continuous bending in one plane only



APPLICATION

Flat rubber reeling cable with or without fiber-optic data transmission for motorized monospiral reels, stackers, reclaimers, horizontal machinery and material-handling equipment up to 120 m/min.

CONSTRUCTION

Parameter	Value
Conductor	Flexible tinned electrolytic copper, Class 5 / DIN VDE 0295 and IEC 60228
Core arrangement	Three power cores laid in parallel; earth core equally concentric over phase cores
Insulation	Special EPR or comparable rubber compound according to VDE
Outer sheath	Abrasion-resistant rubber compound, quality 5GM5 or comparable
Cable form	Flat cable for continuous bending in one plane only
Data version	WGF-D includes additional fiber-optic core
Jacket colour	Red
Design code	(N)TSFLCGEWOEU

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U ₀ /U	3.6/6 kV and 8.7/15 kV
Maximum AC operating voltage	8700/1500 V as stated in source sheet
Maximum DC operating voltage	1200/2000 V as stated in source sheet
Travel speed	Up to 120 m/min
Ambient temperature, flexing	-35 °C to +90 °C
Ambient temperature, fixed	-50 °C to +90 °C
Maximum conductor temperature	+90 °C
Short-circuit temperature	+250 °C
Minimum bending radius	D = 1.5 x cable height d
Tensile load capacity	15 N/mm ² ; refer to data tables
Bending limitation	Continuous bending in one plane only

PERFORMANCE AND USE

Parameter	Value
Flame performance	Low flammability according to IEC 60332-1
Halogen-free	No
LBS / silicone-free	Yes
Ozone resistance	Yes
Humidity and moisture resistance	Yes
UV resistance	Yes
Oil resistance	Yes
Sulfur resistance	Yes
Urea resistance	Yes
Applications	Stackers, reclaimers, horizontal machinery and material-handling equipment
Not suitable for	Bending over more than one plane or S-shaped routing

TECHNICAL DATA

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

WGF FLAT POWER CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Geometry d-B min./max. mm	Copper approx. kg/km	Weight approx. kg/km	Tensile load N
WGF 3.6/6 kV	3x35 + 3x25 / 3E	25.5-68.2 / 28.5-72.2	1346	3.25	1575
WGF 3.6/6 kV	3x50 + 3x25 / 3E	28.0-74.1 / 31.0-78.1	1838	3.98	2250
WGF 3.6/6 kV	3x70 + 3x25 / 3E	29.7-79.2 / 32.7-83.2	2573	4.87	3150
WGF 3.6/6 kV	3x95 + 3x50 / 3E	31.7-84.7 / 34.7-89.7	3518	5.92	4275
WGF 3.6/6 kV	3x120 + 3x70 / 3E	35.1-92.9 / 38.1-97.9	4515	7.42	5400
WGF 8.7/15 kV	3x35 + 3x25 / 3E	28.7-76.2 / 31.7-80.2	1346	3.82	1575
WGF 8.7/15 kV	3x50 + 3x25 / 3E	30.2-80.7 / 33.2-84.7	1807	4.44	2250
WGF 8.7/15 kV	3x70 + 3x25 / 3E	33.3-87.5 / 36.3-92.5	2573	5.61	3150
WGF 8.7/15 kV	3x95 + 3x50 / 3E	35.3-93.5 / 38.3-98.5	3518	6.70	4275
WGF 8.7/15 kV	3x120 + 3x70 / 3E	37.3-99.5 / 40.3-104.5	4515	8.00	5400

TECHNICAL DATA

WGF-D FLAT POWER & DATA CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Geometry d-B min./max. mm	Copper approx. kg/km	Weight approx. kg/km	Tensile load N
WGF-D 3.6/6 kV	3x35 + 4x25 / 4E + 1x(6FO)	24.5-83.5 / 27.5-88.5	1346	3.700	1575
WGF-D 3.6/6 kV	3x50 + 4x25 / 4E + 1x(6FO)	27.0-90.9 / 30.0-95.9	1838	4.530	2250
WGF-D 3.6/6 kV	3x70 + 4x35 / 4E + 1x(6FO)	28.7-97.7 / 31.7-102.7	2573	5.590	3150
WGF-D 3.6/6 kV	3x95 + 4x50 / 4E + 1x(6FO)	30.6-105.3 / 33.6-110.3	3518	6.720	4275
WGF-D 6/10 kV	3x35 + 4x25 / 4E + 1x(6FO)	25.3-86.7 / 28.3-91.7	1346	3.870	1575
WGF-D 6/10 kV	3x50 + 4x25 / 4E + 1x(6FO)	27.8-94.1 / 30.8-99.1	1838	4.730	2250
WGF-D 6/10 kV	3x70 + 4x35 / 4E + 1x(6FO)	29.5-100.9 / 32.5-105.9	2573	5.800	3150
WGF-D 6/10 kV	3x95 + 4x50 / 4E + 1x(6FO)	31.4-108.5 / 34.4-113.5	3518	6.940	4275
WGF-D 8.7/15 kV	3x35 + 4x25 / 4E + 1x(6FO)	28.5-96.6 / 31.5-101.9	1346	4.610	1575
WGF-D 8.7/15 kV	3x50 + 4x25 / 4E + 1x(6FO)	30.0-102.9 / 33.0-107.9	1838	5.340	2250
WGF-D 8.7/15 kV	3x70 + 4x35 / 4E + 1x(6FO)	31.7-109.7 / 33.7-114.7	2573	6.460	3150

TECHNICAL DATA

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage	600/1000 V; source also lists 3.6/6 kV and 8.7/15 kV cable families
Maximum AC operating voltage	8700/1500 V
Maximum DC operating voltage	1200/2000 V
AC test voltage	11 kV / 17 kV / 24 kV
Ampacity	According to table data; otherwise according to VDE 0298 Part 4
Flexing temperature	-25 °C to +80 °C; below -35 °C consult technical support
Fixed temperature	-50 °C to +80 °C
Maximum conductor temperature	+90 °C
Short-circuit temperature	+250 °C
Minimum radius	D = 1.5 x cable height d
Tensile load	According to data table
Insulation	EPR or comparable rubber compound according to VDE
Outer sheath	Abrasion-resistant 5GM5 or comparable compound
Conductor	Tinned electrolytic copper, flexible, Class 5
Conductor coding	Cores parallel; earth core concentric over phase cores; fiber-optic additional core
Standards	According to DIN VDE 0250
Design code	(N)TSFLCGEWOEU
Colour	Red
Flame behaviour	Low flammability according to IEC 60332-1

CERTIFICATIONS



TEBAOFLEX CABLE