



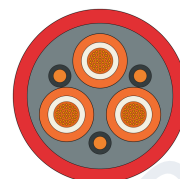
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

WXG / WXG-D MV EXTRA HEAVY-DUTY REELING PCP RUBBER CABLE

Medium-voltage PCP rubber cable for motorized reels and severe dynamic service



APPLICATION

Very resilient medium-voltage round cable for motorized reels, container cranes, mining equipment, stackers, reclaimers and ship unloaders. WXG-D versions provide integrated optical-fiber cores for data transmission.

KEY FEATURES

Parameter	Value
Mechanical protection	Maximum torsional rigidity from supporting polyester fibers vulcanized into the sheath
Electrical strength	High-voltage EPR sandwich insulation with easy-strip semiconductive layer
Dynamic performance	Short-lay cores and reinforced central bond for durable reel operation
Fiber option	6, 12, 18 or more optical fibers for WXG-D versions

DESIGN

Parameter	Value
Conductor	Highly flexible, finely stranded, tin-plated copper
Insulation	EPR high-voltage sandwich system
Sheath	PCP rubber compound, bright red
Standard code	R-(N)TSCGEWOEU / R-(N)TSCGEWOEU-FO

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage grades	6.0/10, 8.7/15 and 12.0/20 kV
Maximum AC voltage	7.0/12.0; 10.2/18.0; 14.0/24.0 kV
Maximum DC voltage	9.0/18.0; 13.0/26.0; 18.0/36.0 kV
Ampacity	According to table data; otherwise DIN VDE 0298 Part 4
AC test voltage	According to DIN VDE 0250 Part 813
Travel speed	Up to 240 m/min
Ambient temperature, flexing	-25 deg C to +80 deg C
Ambient temperature, fixed	-40 deg C to +80 deg C
Conductor temperature	90 deg C; short circuit 200 deg C
Bending radius	12 x D reel; 15 x D pulley; 20 x D S-type change
Torsional stress	+/- 25 deg/m
Tensile load	20 N/mm ² conductor cross section during flexing
Resistance	Flame retardant, ozone, UV, oil and humidity resistant
Construction	EPR insulation with semi-conductive field control; PCP sheathing
Conductor	Finely stranded tin-plated electrolytic copper beyond Category 5
Design code	R-(N)TSCGEWOEU / R-(N)TSCGEWOEU-FO
Optical fiber	6, 12, 18 or more fibers available; fiber options in HFO data

TECHNICAL DATA

WXG POWER CABLE DATA - 6/10 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3 x 25 + 3 G 25/3	38.4-41.4	1,008	2,380	1,500
3 x 35 + 3 G 25/3	40.9-43.9	1,411	2,880	2,100
3 x 50 + 3 G 25/3	44.4-47.4	1,764	3,480	3,000
3 x 70 + 3 G 35/3	49.4-53.4	2,621	4,590	4,200
3 x 95 + 3 G 50/3	53.7-57.7	3,377	5,660	5,700
3 x 120 + 3 G 70/3	57.2-61.2	4,334	6,830	7,200
3 x 150 + 3 G 70/3	62.5-66.5	5,242	8,180	9,000

WXG POWER CABLE DATA - 8.7/15 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3 x 25 + 3 G 25/3	41.8-44.8	1,008	2,670	1,500
3 x 35 + 3 G 25/3	44.4-47.4	1,411	3,130	2,100
3 x 50 + 3 G 25/3	47.9-50.9	1,764	3,810	3,000
3 x 70 + 3 G 35/3	52.9-56.9	2,621	4,960	4,220
3 x 95 + 3 G 50/3	57.2-61.2	3,377	6,070	5,700
3 x 120 + 3 G 70/3	62.1-66.1	4,334	7,480	7,200
3 x 150 + 3 G 70/3	65.9-69.9	5,242	8,630	9,000

WXG POWER CABLE DATA - 12/20 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3 x 25 + 3 G 25/3	44.8-47.8	1,008	2,940	1,500
3 x 35 + 3 G 25/3	47.4-50.4	1,411	3,420	2,100
3 x 50 + 3 G 25/3	51.8-55.8	1,764	4,300	3,000
3 x 70 + 3 G 35/3	55.9-59.9	2,621	5,300	5,250
3 x 95 + 3 G 50/3	61.9-65.6	3,377	6,660	5,700
3 x 120 + 3 G 70/3	65.1-69.1	4,334	7,800	7,200
3 x 150 + 3 G 70/3	69.0-73.0	5,242	9,060	9,000

TECHNICAL DATA

WXG-D POWER + OPTICAL FIBER DATA - 6/10 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3x25+2x25/2+6FO	40.7-43.7	1,008	2,610	1,500
3x35+2x25/2+6FO	42.7-45.7	1,411	3,010	2,100
3x50+2x25/2+6FO	46.1-49.1	1,764	3,680	3,000
3x70+2x35/2+6FO	51.1-55.1	2,621	4,810	4,200
3x95+2x50/2+6FO	56.1-60.1	3,377	6,000	5,700
3x120+2x70/2+6FO	60.9-64.9	4,334	7,410	7,200
3x150+2x70/2+6FO	64.8-68.8	5,242	8,750	9,000

WXG-D POWER + OPTICAL FIBER DATA - 8.7/15 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3x25+2x25/2+6FO	43.5-46.5	1,008	2,860	1,500
3x35+2x25/2+6FO	46.1-49.1	1,411	3,330	2,100
3x50+2x25/2+6FO	50.5-54.5	1,764	4,210	3,000
3x70+2x35/2+6FO	55.2-59.2	2,621	5,270	4,200
3x95+2x50/2+6FO	60.9-64.9	3,377	6,640	5,700
3x120+2x70/2+6FO	64.4-68.4	4,334	7,870	7,200
3x150+2x70/2+6FO	68.8-72.8	5,242	9,130	9,000

WXG-D POWER + OPTICAL FIBER DATA - 12/20 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3x25+2x25/2+6FO	46.6-49.6	1,008	3,150	1,500
3x35+2x25/2+6FO	50.1-54.1	1,411	3,810	2,100
3x50+2x25/2+6FO	54.1-58.1	1,764	4,610	3,000
3x70+2x35/2+6FO	58.2-62.2	2,621	5,640	4,200
3x95+2x50/2+6FO	64.0-68.0	3,377	7,050	5,700
3x120+2x70/2+6FO	68.0-72.0	4,334	8,360	7,200
3x150+2x70/2+6FO	73.3-77.3	5,242	9,840	9,000

CERTIFICATIONS



TEBAOFLEX CABLE