



TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

RXP / RXP-D HEAVY-DUTY REELING PUR CABLE

High-tensile PUR cable for motorized reels and severe dynamic service



APPLICATION

Heavy-duty PUR round reeling cable for motorized reels, high tensile loads, high speeds and severe torsional forces in horizontal and vertical machinery.

CONSTRUCTION

Parameter	Value
Conductor	Flexible bare electrolytic copper, Class 5 according to DIN VDE 0295
Core insulation	Halogen-free polyester or comparable compound
Inner sheath	Wear-resistant polyurethane compound
Supporting element	Textile strain-relief element centrally embedded
Outer sheath	Wear-resistant polyurethane compound
Stranding	Layers, maximum 3 layers, short length of lay
Core coding	According to DIN VDE 0293 Part 308; green/yellow earth conductor
Jacket colour	Black
Design code	12YHRDT11YH / 12HRDTC11YH

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U ₀ /U	0.6/1 kV
Maximum AC operating voltage	0.7/1.2 kV
Maximum DC operating voltage	0.9/1.8 kV
Travel speed	Up to 180 m/min horizontal
Ambient temperature, flexing	-40 °C to +80 °C
Ambient temperature, fixed	-50 °C to +90 °C
Maximum conductor temperature	+90 °C
Short-circuit conductor temperature	+200 °C
Minimum radius, reeling	6 x diameter
Minimum radius, rollers	7.5 x diameter
S-guide pulley distance	20 x diameter
Tensile load	According to data tables

PERFORMANCE AND USE

Parameter	Value
Flame performance	Low flammability according to IEC 60332-1
Halogen-free	Yes
LBS / silicone-free	Yes
Ozone resistance	Yes
Humidity resistance	Yes
UV resistance	Yes
Oil resistance	Yes
Water use	Suitable for temporary use to 50 m depth; consult for permanent use
Applications	Transfer cars, lifting equipment, bulk material handling and automated parking systems
Restrictions	Not suitable for water use beyond stated conditions; use technical review for special pulley arrangements

TECHNICAL DATA

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

RXP CONTROL AND POWER CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper approx. kg/km	Weight approx. kg/km	Tensile load N
RXP control	4 G 1.5	10.0-11.2	61	155	150
RXP control	5 G 1.5	10.6-11.8	81	178	188
RXP control	7 G 1.5	12.1-13.5	115	218	263
RXP control	12 G 1.5	15.4-17.0	196	363	450
RXP control	18 G 1.5	16.3-18.1	271	459	675
RXP control	24 G 1.5	18.7-20.9	392	590	900
RXP control	30 G 1.5	21.6-24.0	450	720	1125
RXP control	42 G 1.5	28.5-30.5	624	1192	2200
RXP control	4 G 2.5	11.1-12.3	99	208	250
RXP control	5 G 2.5	11.8-13.0	125	230	313
RXP control	7 G 2.5	13.3-14.7	180	315	438
RXP control	12 G 2.5	18.5-20.5	308	485	750
RXP control	18 G 2.5	18.5-20.5	451	679	1125
RXP control	24 G 2.5	21.2-23.6	616	860	1500
RXP control	30 G 2.5	25.4-28.2	771	1080	1875
RXP power	4 G 4	12.2-13.6	160	281	400
RXP power	4 G 6	13.3-14.9	241	372	600
RXP power	4 G 10	17.1-18.9	404	615	1000
RXP power	4 G 16	19.9-22.1	645	924	1600
RXP power	4 G 25	22.9-25.5	1005	1270	2500
RXP power	4 G 35	27.2-30.0	1417	1778	3500
RXP power	5 G 4	13.1-14.5	200	318	500
RXP power	5 G 6	14.5-16.1	317	435	750
RXP power	5 G 10	18.5-20.5	528	704	1250
RXP power	5 G 16	21.8-24.2	816	1067	2000
RXP power	5 G 25	27.5-30.5	1428	1590	3125
RXP power	14 G 4	22.7-25.3	616	819	1400
RXP power	20 G 4	24.3-25.9	768	1100	1600
RXP power	7 G 6	20.0-21.4	429	715	1050

TECHNICAL DATA

RXP-D DATA, CONTROL+DATA AND POWER+DATA DIMENSIONS					
Cable family	Conductors and cross section mm ²	Outer diameter min./max. mm	Copper approx. kg/km	Weight approx. kg/km	Tensile load N
RXP-D data	4 x (2 x 1) C	14.4-15.0	111	253	200
RXP-D data	6 x (2 x 1) C	21.0-23.0	265	597	300
RXP-D data	4 x 2 x AWG22	12.6-13.6	586	164	300
RXP-D data	12 G 62.5/125 µm	13.0-15.0	170	200	200
RXP-D control+data	19 G 2.5 + 5 x 1.5 C	21.2-23.8	563	850	1188
RXP-D control+data	12 x 4 G 2.5 + 2 x 2 x 0.25 CAN	39.0-41.0	1420	2298	3000
RXP-D power+data	4 G 6 + 4 x (2 x 1.5) C	22.3-24.3	525	851	600
RXP-D power+data	4 G 16 + 2 x (4 x 1.5) C	24.0-25.6	840	1184	1600
RXP-D power+data	4 G 35 + 2 x (4 x 1.5) C	33.5-36.5	1635	2380	3500
RXP-D power+data	13 G 4 + 2 x (2 x 1) C	24.3-26.9	575	943	1500
RXP-D power+data	17 G 4 + 2 x (2 x 1) C	26.7-29.5	701	1127	1500
RXP-D power+data	25 G 4 + 2 x (2 x 1) C	32.6-36.2	1020	1637	2250
RXP-D power+data	5 G 6 + 2 x (2 x 1) C	19.3-21.3	345	670	750
RXP-D power+data	13 G 6 + 2 x (2 x 1) C	28.4-31.4	838	1266	1500
RXP-D power+data	17 G 6 + 2 x (2 x 1) C	30.3-33.5	1070	1556	2250
RXP-D power+data	25 G 6 + 2 x (2 x 1) C	38.1-42.2	1500	2270	2500
RXP-D power+data	5 G 16 + 4 x (2 x 0.75) C	29.0-30.5	889	1468	1600
RXP-D power+data	5 G 6 + 12 FO	19-21	288	500	600
RXP-D power+data	5 G 16 + 12 FO	25-28	768	1100	1600
RXP-D power+data	5 G 25 + 12 FO	30-33	1200	1600	2500
RXP-D power+data	5 G 35 + 12 FO	33-36	1680	2100	3500

TECHNICAL DATA

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage	600/1000 V
Maximum AC operating voltage	700/1200 V
Maximum DC operating voltage	900/1800 V
AC test voltage	3.5 kV
Ampacity	According to table data; otherwise according to VDE 0298 Part 4
Flexing temperature	-40 °C to +80 °C
Fixed temperature	-50 °C to +90 °C
Maximum conductor temperature	+90 °C
Short-circuit temperature	+200 °C
Minimum radius, reeling	6 x diameter
Minimum radius, rollers	7.5 x diameter
S-type guide distance	20 x diameter
Tensile load	According to data table
Insulation	Halogen-free polyester or comparable compound
Inner sheath	Polyurethane
Supporting element	Textile element centrally embedded
Outer sheath	Wear-resistant polyurethane
Conductor	Bare electrolytic copper, Class 5
Standards	DIN VDE 0295; IEC 60228; DIN VDE 0293 Part 308
Water suitability	Temporary use to 50 m depth; consult for permanent use
Design codes	12YHRDT11YH / 12HRDTC11YH
Colour	Black

CERTIFICATIONS



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