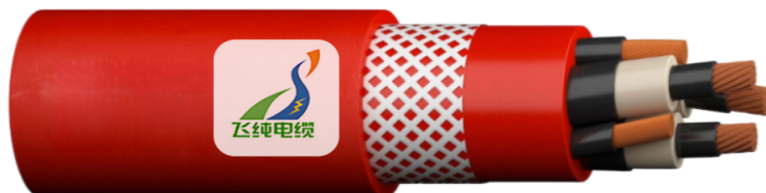


FEICHUN PROTON (M) R-(N)TSCGEWUEU 6/10KV

Medium voltage reeling cable



For connection of large material handling machines such as excavators, dumpers, mobile crusher in open-cast mines. Flexible MV reeling cable suitable for high mechanical stresses in conjunction with mono spiral reels and cylindrical reels.

STANDARDS / APPROVALS



EN 50525-2-21
DIN VDE 0207-21
DIN VDE 0298-3
Based on DIN VDE 0250-813
DIN EN 60811-404 / IEC 60811-404
GOST -R/-K/-B Fire Certificate of Russian Federation
DIN EN 60332-1-2 / IEC 60332-1-2

Electrical parameters
 Compound
 Mechanical parameters
 General
 Chemical behaviour
 Certifications / Approvals
 Fire performance

Cable Construction

Conductor	Very finely stranded copper, bare (class FS)
Inner semi-conducting layer	PE: Very finely stranded copper, bare (class FS)
-	Yes
Core insulation material	Semi-conductive EPR
-	EPR rubber
-	PROTONFC
Outer semi-conducting layer	Special compound > 3GI3
-	Yes
Core arrangement	Semi-conductive NBR easy-strip
Material inner sheath	Three core design, with split earth conductor in three interstices
-	Rubber
Armouring/reinforcement	Special compound 5GM3
Armouring/reinforcement material	Braiding
Material outer sheath	Polyester
-	Rubber - polychloroprene (PCP)
	Special compound > 5GM5



FEICHUN SPECIAL CABLES

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ELECTRICAL PARAMETERS

Rated voltage U_0/U (Um)	6/10 (12) kV
Test voltage [kV]	17
Nominal voltage U [V]	10,000

THERMAL PARAMETERS

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Ambient temperature fix installation (min) [°C]	-40
Ambient temperature fix installation (max) [°C]	80
Ambient temperature flexible installation (min) [°C]	-35
Ambient temperature flexible installation (max) [°C]	80

CHEMICAL PARAMETERS

Flame retardant	In accordance with EN/IEC 60332-1-2
Oil resistant	Yes
Ozone resistance	Yes
Resistant to UV	Yes
Sea water resistance	Yes

MECHANICAL PARAMETERS

Torsional stress +/- [°/m]	100
Permanent tensile strength (rule)	20 N/mm ² static 25 N/mm ² dynamic
Travel speed	On rewinding: up to 100 m/min Reeling operation: up to 120 m/min
Bending radius (rule)	Acc. to VDE 0298-3: 6 X D fixed installation 10 X D flexible operation 20 X D min distance with S-type directional changes



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CABLE PROPERTIES

Basic construction	SAP code	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
3x25+3x25/3	20007429	SDK4310	7.1	36.8	39.8	2,360
3x25+3x50/3	M_R_10KV_002	SDK4***	7.1	41.3	44.3	2,880
3x35+3x25/3	20006949	SDK4309	8.4	40.5	43.5	2,960
3x35+3x50/3	20018359	SDK4312	8.4	42.9	45.9	3,350
3x50+3x25/3	20008746	SDK4314	10.1	44.1	47.1	3,610
3x50+3x50/3	20031763	SDK4315	10.1	44.1	47.1	3,820
3x70+3x35/3	20004607	SDK4317	11.8	47.9	50.9	4,510
3x70+3x50/3	20004608	SDK4318	11.8	47.9	50.9	4,730
3x95+3x50/3	20004611	SDK4321	13.8	52.8	56.8	5,810
3x120+3x70/3	20001446	SDK4322	15.5	56.4	60.4	7,110
3x150+3x70/3	20007824	SDK4323	17.4	61.9	65.9	8,380
3x185+3x95/3	20008329	SDK4325	19.2	65.7	69.7	10,030
3x240+3x120/3	20170681	SDK4***	22.1	73.3	77.3	12,570
3x300+3x150/3	20233807	SDK4326	24.7	78.7	82.7	15,060
3X50+2X25/2+1X10ST	20004636	SDK4481	10.1	44.8	47.8	3,740
3X25+2X25/2+1X10ST	20007427	SDK4340	7.1	41.2	44.2	2,860
3X95+2X50/2+1x10ST	20231824	SDK4***	13.8	56.1	60.1	6,500
3x120+2x70/2+1x10ST	20035931	SDK4486	15.5	56.4	60.4	7,190
3x185+2x95/2+1x10ST	M_R_10KV_001	SDK4***	19.2	65.7	69.7	9,859



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CABLE PROPERTIES ELECTRIC / MECHANICAL

Basic construction	SAP code	External code	Max. tensile strength [N]	Nominal operation capacitance [nF/km]	Operation self inductance [mH/km]	Conductor resistance at 20° C [Ohm/km]	Current carrying capacity [A]
3x25+3x25/3	20007429	5DK4310	1,500	330	0.32	0.7839	131
3x25+3x50/3	M_R_10KV_002	5DK4***	1,500	330	0.32	0.7839	131
3x35+3x25/3	20006949	5DK4309	2,100	380	0.31	0.554	162
3x35+3x50/3	20018359	5DK4312	2,100	380	0.31	0.554	162
3x50+3x25/3	20008746	5DK4314	3,000	430	0.29	0.386	202
3x50+3x50/3	20031763	5DK4315	3,000	430	0.29	0.386	202
3x70+3x35/3	20004607	5DK4317	4,200	490	0.28	0.272	250
3x70+3x50/3	20004608	5DK4318	4,200	490	0.28	0.272	250
3x95+3x50/3	20004611	5DK4321	5,700	560	0.27	0.206	301
3x120+3x70/3	20001446	5DK4322	7,200	620	0.26	0.161	352
3x150+3x70/3	20007824	5DK4323	9,000	670	0.25	0.129	404
3x185+3x95/3	20008329	5DK4325	11,100	730	0.25	0.106	461
3x240+3x120/3	20170681	5DK4***	14,400	820	0.24	0.0801	540
3x300+3x150/3	20233807	5DK4326	18,000	910	0.24	0.0641	620
3X50+2X25/2+1X10ST	20004636	5DK4481	3,000	400	0.29	0.386	202
3X25+2X25/2+1X10ST	20007427	5DK4340	1,500	330	0.32	0.7839	131
3X95+2X50/2+1x10ST	20231824	5DK4***	5,700	560	0.27	0.206	301
3x120+2x70/2+1x10ST	20035931	5DK4486	7,200	620	0.26	0.161	352
3x185+2x95/2+1x10ST	M_R_10KV_001	5DK4***	11,100	730	0.25	0.106	461

Current carrying capacity acc. VDE 0298-4, Tab. 15, on a surface at 30°C ambient temperature.



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