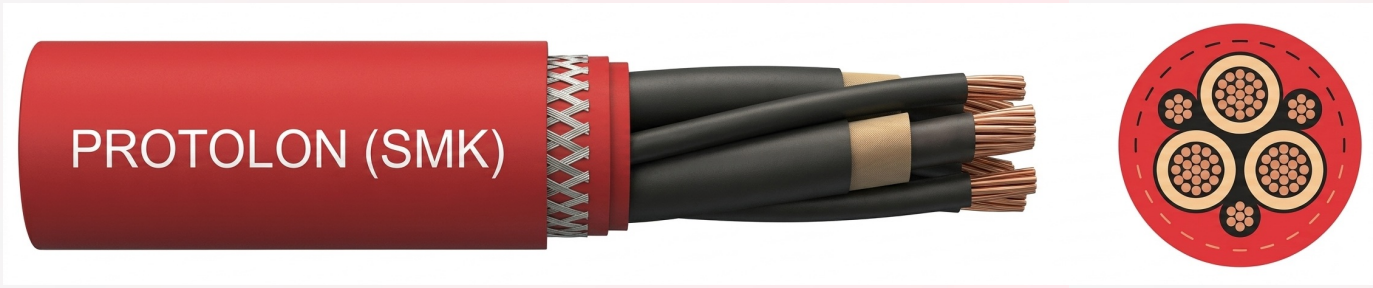
AnHui Feichun
Special Cable Co., Ltd
Professional Manufacturer

PROTOLON

(SMK) & (SMK)-LWL

Medium Voltage Reeling Cable System

COMPLETE Technical Specification
ALL Product Configurations (52+ Types)



PROTOLON (SMK) & (SMK)-LWL - Professional Medium Voltage Reeling Cable System with Optional Fiber Optics

PRODUCT OVERVIEW & SERIES

PROTOLON (SMK) is the complete family of professional-grade flexible medium voltage reeling cables for extreme mechanical stresses, high travel speeds, and dynamic loads. Two series available: standard power cables and fiber-optic integrated versions (SMK-LWL).

PROTOLON (SMK) STANDARD

- 1.8/3 kV class
- 3.6/6 kV class
- 6/10 kV class
- 31 configurations
- Power only

PROTOLON (SMK)-LWL

- 3.6/6 kV with fiber
- 8.7/15 kV with fiber
- 12/20 kV with fiber
- 20+ configurations
- Power + Data

⚡ **SERIES A: PROTOLON (SMK) - STANDARD MEDIUM VOLTAGE CABLES (31 Configurations)**

PROTOLON (SMK) 1.8/3 KV - 10 CONFIGURATIONS

1.8/3 kV

10 configurations: 3×25 to 3×300 mm² power cores with split earth

Config	Part No.	MLFB	Ø Cond(mm)	Ø E(mm)	Ø min(mm)	Ø max(mm)	R min(mm)	Wt(kg/km)	Tens(N)	Dyn(N)	R@20°C	I(A)	I²t(kA²)
3×25+3×25/3	20004456	5DK2101	7.1	4.2	34.3	37.3	373	2110	1500	2250	0.8	131	3.58
3×35+3×25/3	-	5DK2102	8.3	4.2	43	46	460	3150	2100	3150	0.57	162	5.01
3×50+3×25/3	20143217	5DK2103	9.9	4.2	46.4	49.4	494	3840	3000	4500	0.39	202	7.15
3×70+3×35/3	20004457	5DK2104	11.8	5	45.9	48.9	489	4230	4200	6300	0.28	250	10.01
3×95+3×50/3	20004458	5DK2105	13.8	5.9	50.3	54.3	543	5440	5700	8550	0.21	301	13.59
3×120+3×70/3	-	5DK2106	15.4	7	63.8	67.8	678	8010	7200	10800	0.16	352	17.16
3×150+3×70/3	-	5DK2107	17.2	7	67.7	71.7	717	9240	9000	13500	0.13	404	21.45

3×185+3×95/3	-	5DK2108	19	8	71.6	75.6	756	10750	11100	16650	0.11	461	26.46
3×240+3×120/3	-	5DK2110	21.8	9	79.4	83.4	834	13640	14400	21600	0.08	540	34.32
3×300+3×150/3	-	5DK2111	24.4	10	84.7	89.7	897	16230	18000	27000	0.07	620	42.9

PROTOLON (SMK) 3.6/6 KV - 10 CONFIGURATIONS

3.6/6 kV

Config	Part No.	MLFB	Ø Cond	Ø E	Ø min	Ø max	R min	Wt	Tens	Dyn	R@20°C	I(A)	I²t
3×25+3×25/3	20004476	5DK3101	7.1	4.2	35.5	38.5	385	2210	1500	2250	0.8	131	3.58
3×35+3×25/3	20004477	5DK3102	8.3	4.2	39	42	420	2720	2100	3150	0.57	162	5.01
3×50+3×25/3	20004478	5DK3103	9.9	4.2	42.4	45.4	454	3380	3000	4500	0.39	202	7.15
3×70+3×35/3	20004479	5DK3104	11.8	5	46.4	49.4	494	4310	4200	6300	0.28	250	10.01
3×95+3×50/3	20004480	5DK3105	13.8	5.9	51.4	55.5	555	5570	5700	8550	0.21	301	13.59
3×120+3×70/3	20024335	5DK3106	15.4	7	55	59	590	6700	7200	10800	0.16	352	17.16
3×150+3×70/3	20004481	5DK3107	17.2	7	58.8	62.8	628	7820	9000	13500	0.13	404	21.45
3×185+3×95/3	20006940	5DK3108	19	8	64	68	680	9530	11100	16650	0.11	461	26.46
3×240+3×120/3	-	5DK3110	21.8	9	72.5	76.5	765	12120	14400	21600	0.08	540	34.32
3×300+3×150/3	-	5DK3111	24.4	10	78.2	82.2	822	14580	18000	27000	0.07	620	42.9

PROTOLON (SMK) 6/10 KV - 11 CONFIGURATIONS

6/10 kV

Config	Part No.	MLFB	Ø Cond	Ø E	Ø min	Ø max	R min	Wt	Tens	Dyn	R@20°C	I(A)	I²t
3×25+3×25/3	20004539	5DK4061	7.1	4.2	37.8	40.8	408	2400	1500	2250	0.8	131	3.58
3×35+3×25/3	20001443	5DK4062	8.3	4.2	40.2	43.2	432	2830	2100	3150	0.57	162	5.01
3×35+3×35/3	20004545	5DK4072	8.3	5	40.2	43.2	432	2920	2100	3150	0.57	162	5.01
3×35+3×50/3	20008105	5DK4802	8.3	5.9	42.7	45.7	457	3280	2100	3150	0.57	162	5.01
3×50+3×25/3	20004540	5DK4063	9.9	4.2	43.7	46.7	467	3570	3000	4500	0.39	202	7.15
3×70+3×50/3	20004546	5DK4074	11.8	5.9	47.7	50.7	507	4570	4200	6300	0.28	250	10.01
3×95+3×50/3	20004541	5DK4065	13.8	5.9	52.8	56.8	568	5710	5700	8550	0.21	301	13.59
3×120+3×70/3	20004542	5DK4066	15.4	7	56.2	60.2	602	6840	7200	10800	0.16	352	17.16
3×150+3×70/3	20004543	5DK4067	17.2	7	61.5	65.5	655	8200	9000	13500	0.13	404	21.45
3×185+3×95/3	20004544	5DK4068	19	8	65.3	69.3	693	9690	11100	16650	0.11	461	26.46
3×240+3×120/3	20113369	5DK4070	21.8	9	73.8	77.8	778	12310	14400	21600	0.08	540	34.32
3×300+3×150/3	20154762	5DK4071	24.4	10	79.5	83.5	835	14780	18000	27000	0.07	620	42.9

SERIES B: PROTOLON (SMK)-LWL - MEDIUM VOLTAGE WITH FIBER OPTICS (20+ Configurations)

PROTOLON (SMK)-LWL 3.6/6 KV + FIBER - 10 CONFIGURATIONS

3.6/6 kV + 1×(6G62.5)

10 configurations: 3P+2E/2+1FO (power + earth + fiber optic)

Config	Part	MLFB	Ø P	Ø E	Ø min	Ø max	R min	Wt	Tens	Dyn	R@20°C	I(A)	I²t
3×25+2×25/2+1FO	-	5DK4***	7.1	5	40.3	43.3	433	2580	1500	2250	0.8	131	3.58
3×35+2×25/2+1FO	-	5DK4***	8.3	5	42.1	45.1	451	3040	2100	3150	0.57	162	5.01
3×50+2×25/2+1FO	-	5DK4***	9.9	5	46.8	50.8	508	3970	3000	4500	0.39	202	7.15
3×70+2×35/2+1FO	20007670	5DK4***	11.8	5.9	50.6	54.6	546	5030	4200	6300	0.28	250	10.01
3×95+2×50/2+1FO	20007671	5DK4***	13.8	7.2	56.4	60.4	604	6410	5700	8550	0.21	301	13.59
3×120+2×70/2+1FO	20007672	5DK4***	15.4	8.3	60.2	64.2	642	7700	7200	10800	0.16	352	17.16
3×150+2×70/2+1FO	20007673	5DK4***	17.2	8.3	65.3	69.3	693	9130	9000	13500	0.13	404	21.45
3×185+2×95/2+1FO	20007673	5DK4***	19	9.8	69.3	73.3	733	10290	11100	16650	0.11	461	26.46
3×240+2×120/2+1FO	20035801	5DK4090	21.8	11	76.7	80.7	807	12960	14400	21600	0.08	540	34.32
3×300+2×150/2+1FO	-	5DK4091	24.4	12	84.2	89.2	892	15880	18000	27000	0.07	620	42.9

PROTOLON (SMK)-LWL 8.7/15 KV + FIBER - 10 CONFIGURATIONS

8.7/15 kV + 1×(6G62.5)

Config	Part	MLFB	Ø P	Ø E	Ø min	Ø max	R min	Wt	Tens	Dyn	R@20°C	I(A)	I²t
3×25+2×25/2+1FO	20004664	5DK5078	7.1	5	43.5	46.5	465	2890	1500	2250	0.8	139	3.58
3×35+2×25/2+1FO	20004667	5DK5082	8.3	5	46.1	49.1	491	3380	2100	3150	0.57	172	5.01
3×50+2×25/2+1FO	20004668	5DK5083	9.9	5	50.5	54.5	545	4260	3000	4500	0.39	215	7.15
3×70+2×35/2+1FO	20004669	5DK5084	11.8	5.9	55.2	59.2	592	5350	4200	6300	0.28	265	10.01
3×95+2×50/2+1FO	-	5DK5***	13.8	7.2	60.9	64.9	649	6700	5700	8550	0.21	319	13.59
3×120+2×70/2+1FO	-	5DK5***	15.4	8.3	64.4	68.4	684	7870	7200	10800	0.16	371	17.16
3×150+2×70/2+1FO	-	5DK5***	17.2	8.3	68.8	72.8	728	9130	9000	13500	0.13	428	21.45
3×185+2×95/2+1FO	-	5DK5***	19	9.8	74.1	78.1	781	10920	11100	16650	0.11	488	26.46
3×240+2×120/2+1FO	-	5DK5***	21.8	11	80.8	84.8	848	13560	14400	21600	0.08	574	34.32
3×300+2×150/2+1FO	-	5DK5***	24.4	12	87.7	92.7	927	16510	18000	27000	0.07	660	42.9

PROTOLON (SMK)-LWL 12/20 KV + FIBER - 10 CONFIGURATIONS

12/20 kV + 1×(6G62.5)

Config	Part	MLFB	Ø P	Ø E	Ø min	Ø max	R min	Wt	Tens	Dyn	R@20°C	I(A)	I²t
3×25+2×25/2+1FO	20004701	5DK5531	7.1	5	46.6	49.6	496	3200	1500	2250	0.8	139	3.58
3×35+2×25/2+1FO	20004702	5DK5533	8.3	5	50.1	54.1	541	3880	2100	3150	0.57	172	5.01
3×50+2×25/2+1FO	-	5DK5***	9.9	5	54.1	58.1	581	4670	3000	4500	0.39	215	7.15
3×70+2×35/2+1FO	20168072	5DK5***	11.8	5.9	58.2	62.2	622	5640	4200	6300	0.28	265	10.01
3×95+2×50/2+1FO	-	5DK5***	13.8	7.2	64	68	680	7050	5700	8550	0.21	319	13.59
3×120+2×70/2+1FO	-	5DK5***	15.4	8.3	68	72	720	8360	7200	10800	0.16	371	17.16
3×150+2×70/2+1FO	20161633	5DK5***	17.2	8.3	73.3	77.3	773	9840	9000	13500	0.13	428	21.45
3×185+2×95/2+1FO	-	5DK5***	19	9.8	77.2	81.2	812	11410	11100	16650	0.11	488	26.46
3×240+2×120/2+1FO	-	5DK5***	21.8	11	85.1	90.1	901	14440	14400	21600	0.08	574	34.32
3×300+2×150/2+1FO	-	5DK5***	24.4	12	91.3	96.3	963	17810	18000	27000	0.07	660	42.9

CONTACT & TECHNICAL SUPPORT

Company: AnHui Feichun Special Cable Co., Ltd

WhatsApp: +86 13855123218

Website: feichuncables.com | reelingcable.com

Service:	24/7 Technical Support & Custom Solutions

Complete PROTOLON Family: 52+ configurations across 6 voltage classes | PROTOLON HS insulation | PROTOFIRM Sandwich sheath | Optional fiber optic integration | Unrestricted reeling speed capability

Standards Compliance: DIN VDE 0250-813, DIN VDE 0295, DIN VDE 0207 Part 20, DIN VDE 0298 Part 3, GOST-R

© AnHui Feichun Special Cable Co., Ltd | All Rights Reserved | Version 2.0 | August 2026
COMPLETE EDITION - All 52+ configurations included. Standard versions for power only, LWL versions include integrated 6-fiber multimode optics. Custom configurations and higher fiber count (12/18/24 fibers) available upon request.