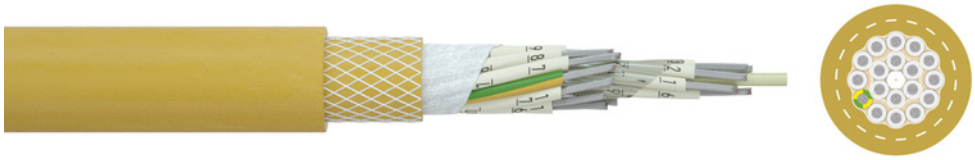
Low voltage Reeling Cable
PRYSMIAN CORDAFLEX®(SMK) (N)SHTOEU



Application: As a reeling connection cable for high and very high mechanical loads. Can also be used within the scope of DIN VDE 0168 and 0118: Surface and underground mining.

The maximum speed in reeling and festoon application is 240 m/s. Additional tests: Reversed bending test, roller bending test, torsional stress test

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	class „FS“ = exceptionally fine stranded
Material inner sheath:	cross-linked rubber blend
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404
Ozone-resistant:	DIN EN 60811-2-1(A)
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Min. bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed:	240 m/min.

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Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø max. [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
054092	03X25 + 3X16/3	0.795		31.4	2250	928	1746
051554	03X35 + 3X16/3	0.565		31.7	3150	1220	1987
052427	03X50 + 3X25/3	0.393		37.4	4500	1764	2910
051407	03X70 + 3X35/3	0.277		42.7	6300	2470	3854
051474	03X95 + 3X50/3	0.21		47.3	16650	3377	5024
051445	03X120 + 3X70/3	0.164		55	10800	4340	6630
051852	03X150 + 3X70/3	0.132		57.9	13500	5242	7647
051564	03X185 + 3X95/3	0.108		62.9	16650	6552	9091
051760	03X240 + 3X120/3	0.0817		71.4	21600	8870	11998
053447	04x1.5	13.7		13.8	180	61	257
051879	04X2.5	8.21		14.8	300	101	313
051512	04X4	5.09		18	480	161	475
051547	04X6	3.39		19.4	720	242	592
052698	05X25	0.795		36.7	3750	1300	2438
051845	04X10	1.95		23.6	1200	384	929
051536	04X16	1.24	26.7		1920	645	1358
055098	05X16	1.24		29.1	2400	806	1569
051496	04X25	0.795		31.5	3000	1020	1844
052792	04X35	0.565		39.9	4200	1486	2828
053050	04X50	0.393		46.5	6000	2016	3800
052011	07X1.5	13.7		18.6	315	106	409
051751	12X1.5	13.7		23.4	540	182	714
052437	18X1,5	13.7		23.3	810	272	812
052249	24X1.5	13.7		26.8	1080	363	1055
052033	36X1,5	13.7		29.5	1620	543	1337
053705	44x1.5	13.7		32.5	1980	664	1530
051457	12X2.5	8.21		25.4	900	302	920
051763	18X2.5	8.21		25.3	1350	454	1005
051851	24X2.5	8.21	29.2		1800	605	1408
052016	36X2.5	8.21		33.3	2700	907	1833
051420	44X2.5	8.21		37.1	3300	1109	2174
052434	56X2,5	8.21		43.1	4200	1411	3020
053207	12x2.5 + 12x1(C)	8.21		30.2	900	554	1352
052972	19X2,5 + 5X1(C)	8.21		29.2	1425	580	1385
053719	19x2.5 + 5x1.5(C)	8.21		34	1425	580	1678
051517	25X2.5 + 5X1(C)	8.21		32.4	2025	740	1633
052024	34X2.5 + 10X1(C)	8.21		37.1	2850	1070	2248
053234	05x10+1x(4x1.5)C	1.95		32.7	1500	641	1600
052357	03X120 + 1X70 + 2X(6X2.5)	0.164		66.9	10800	4637	8405
053384	03x150+2x70/2+1x(6x1)C	0.132		67.5	13500	5440	9250

Rl	Conductor resistance
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000