Rubber reeling cable
CORDAFLEX SMRT (N)SHTOEU

Application: Flexible reeling low voltage cable for applications and environmental conditions with high stresses. The cables are available with either singlemode E9/125µ or multimode 50/125µ and 62.5/125µ

- Bending radius: acc. to VDE 0298-3
- Current-carrying capacity acc. to VDE 0298-4, Tab. 15
- Reeling speed : 160 m/min. (center-feed), 200 m/min. (end-feed)

Construction and technical data:

Standard:	VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = fine stranded - DIN EN IEC 60228 (VDE 0295)
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	EPR
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber (PCP) 5GM5
Colour of outer sheath:	black
Flame-retardant:	EN 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Min. bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	25 N/mm²
Operating speed:	160 m/min.

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

CORDAFLEX SMRT (N)SHTÖU

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
055056	3X35 + 3X16/3	0.554	162	27.4	30.4	2100	2650	1162	1800
055057	3X50 + 3X25/3	0.386	202	30.8	33.8	3000	3750	1680	2450
055058	3X70 + 3X35/3	0.272	250	37.2	40.2	4200	5250	2352	3550
055059	3X95 + 3X50/3	0.206	301	43.3	46.3	5700	7125	3216	4700
054973	3X120 + 3X70/3	0.161	352	46.7	50.7	7200	9000	4128	5800
055060	3X150 + 3X70/3	0.129	404	52	56	9000	11250	4992	7100
055018	3X185 + 3X95/3	0.106	461	57	61	11100	13875	6240	8600
055061	3x240 + 3x120/3	0.0801	540	64.4	68.4	14400	18000	8064	11100
055034	3X300 + 3X150/3	0.0641	620	70.3	74.3	18000	22500	10080	13350

CORDAFLEX SMRT (N)SHTOEU (FO)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054910	3X35 + 2X16/2 + 1X(12G50/125)	0.554	162	34	36.4	2100	2650	1181	2220
054945	3X50 + 2X25/2 + 1X(12E9/125)	0.386	202	36.9	39.9	3000	3750	1680	2850
054946	3X50 + 2X25/2 + 1X(12G50/125)	0.386	202	36.9	39.9	3000	3750	1680	2850
054947	3X50 + 2X25/2 + 1X(12G62.5/125)	0.386	202	36.9	39.9	3000	3750	1680	2850
054948	3X70 + 2X35/2 + 1X(12E9/125)	0.272	250	39.3	42.3	4200	5250	2352	3580
054949	3X70 + 2X35/2 + 1X(12G50/125)	0.272	250	39.3	42.3	4200	5250	2352	3580
054950	3X70 + 2X35/2 + 1X(12G62.5/125)	0.272	250	39.3	42.3	4200	5250	2352	3580
054951	3X95 + 2X50/2 + 1X(12E9/125)	0.206	301	43.2	46.2	5700	7125	3216	4540
054911	3X95 + 2X50/2 + 1X(12G50/125)	0.206	301	43.2	46.2	5700	7125	3216	4540
054952	3X95 + 2X50/2 + 1X(12G62.5/125)	0.206	301	43.2	46.2	5700	7125	3216	4540
054953	3X120 + 2X70/2 + 1X(12E9/125)	0.161	352	48.4	51.4	7200	9000	4128	5750
054954	3X120 + 2X70/2 + 1X(12G50/125)	0.161	352	48.4	51.4	7200	9000	4128	5750
054955	3X120 + 2X70/2 + 1X(12G62.5/125)	0.161	352	48.4	51.4	7200	9000	4128	5750
054956	3X150 + 2X70/2 + 1X(12E9/125)	0.129	404	53.6	56.6	9000	11250	4992	6890
054912	3X150 + 2X70/2 + 1X(12G50/125)	0.129	404	53.6	56.6	9000	11250	4992	6890
054957	3X150 + 2X70/2 + 1X(12G62.5/125)	0.129	404	53.6	56.6	9000	11250	4992	6890
054958	3X185 + 2X95/2 + 1X(12E9/125)	0.106	461	57.5	60.5	11100	13875	6240	8380
054959	3X185 + 2X95/2 + 1X(12G50/125)	0.106	461	57.5	60.5	11100	13875	6240	8380

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054960	3X185 + 2X95/2 + 1X(12G62.5/125)	0.106	461	57.5	60.5	11100	13875	6240	8380
054961	3X240 + 2X120/2 + 1X(12E9/125)	0.0801	540	65.4	68.4	14400	18000	8064	10880
054962	3X240 + 2X120/2 + 1X(12G50/125)	0.0801	540	65.4	68.4	14400	18000	8064	10880
054963	3X240 + 2X120/2 + 1X(12G62.5/125)	0.0801	540	65.4	68.4	14400	18000	8064	10880
055012	3X300 + 2X150/2 + 1X(12E9/125)	0.0641	620		78.8	18000	22500	10080	14360

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000