

SIMBAL MV PLUS

Medium voltage reeling cable

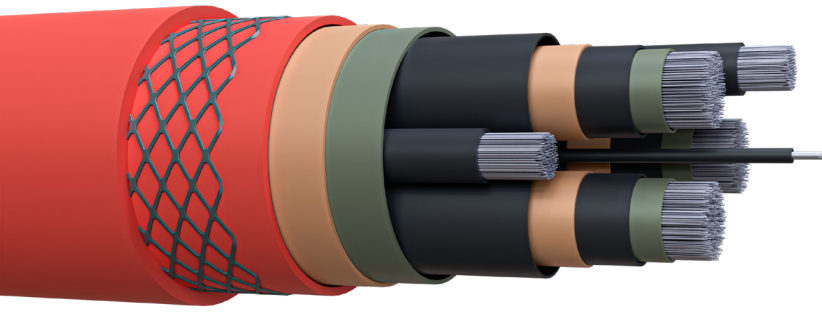
Application

Flexible medium voltage reeling cable with reduced weight and dimensions, for high and extreme Mechanical stress, inc. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Simbal otherwise warranty may become void.

- Min. bedding radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Construction and technical data

Standard:	VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on Kevlar® element
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber Gm1b/5GM5
Torsion protection:	polyester braid
Torsion:	+/- 25 %/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	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, moving °C:	-30 - +80°C
Maximum tensile strength at the conductor:	30 N/mm ²
Operating speed:	240 m/min.



Max tensile strength 3xphase + centre element

Nominal cross-section conductor	25 mm ²	35 mm ²	50 mm ²
Max. tensile strength	6250 N	7150 N	8500 N

SIMBAL MV PLUS 3.6/6kV

Nominal voltage U ₀ :	3.6 kV
Nominal voltage U:	6 kV
Maximum permitted operating voltage in three-phase systems	7.2 kV
Test voltage:	11 kV

Part N°	Part name	Ø [mm]	Cu [kg/km]	G [kg]
08047 2500 03	3X25 + 3X25/3	40.3	960	2380
08047 3500 03	3X35 + 3X25/3	44.6	1248	2920
08047 5000 03	3X50 + 3X25/3	47.7	1680	3520

SIMBAL MV PLUS 6/10kV

Nominal voltage U ₀ :	6 kV
Nominal voltage U:	10 kV
Maximum permitted operating voltage in 3-phase systems	12 kV
Test voltage:	17 kV

Part N°	Part name	Ø [mm]	Cu [kg/km]	G [kg]
08048 2500 03	3X25 + 3X25/3	40.3	960	2380
08048 3500 03	3X35 + 3X25/3	44.6	1248	2920
08048 5000 03	3X50 + 3X25/3	47.7	1680	3520

SIMBAL MV PLUS 8.7/15kV

Nominal voltage U _o :	8.7 kV
Nominal voltage U:	15 kV
Maximum permitted operating voltage in three-phase systems	18 kV
Test voltage:	24 kV

Part N°	Part name	Ø [mm]	Cu [kg/km]	G [kg]
08049 2500 03	3X25 + 3X25/3	46.4	960	2860
08049 3500 03	3X35 + 3X25/3	47.9	1248	3210
08049 5000 03	3X50 + 3X25/3	51.2	1680	3830

SIMBAL MV PLUS 12/20kV

Nominal voltage U _o :	12 kV
Nominal voltage U:	20 kV
Maximum permitted operating voltage in three-phase systems	24 kV
Test voltage:	29 kV

Part N°	Part name	Ø [mm]	Cu [kg/km]	G [kg]
08059 2500 03	3X25 + 3X25/3	48.1	960	3080
08059 3500 03	3X35 + 3X25/3	50.6	1248	3460
08059 5000 03	3X50 + 3X25/3	55.5	1680	4310

Table key

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000m