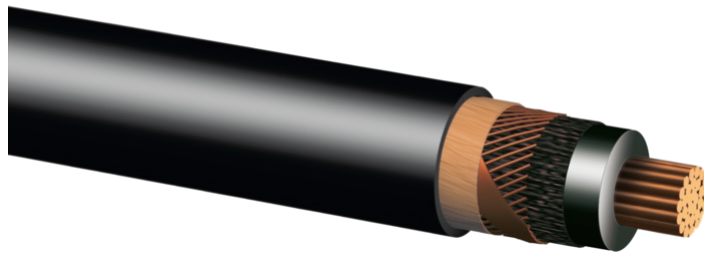


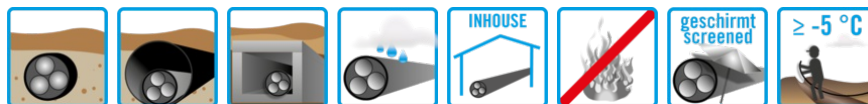
Power cable

BayEnergy® CPR NYSY 0,6/1 kV



- copper conductor, stranded
- Insulation: PVC
- wrapping, plastic foil
- copper screen with counter helix
- wrapping
- outer sheath, PVC, black

The product graphics are not to scale and do not represent detailed images of the respective products.



Order-No.	Product	CPR Reaction to fire class	Fire load [MJ/m]	Cu No. [kg/km]	Outer diameter approx. [mm]	Net weight approx. [kg/km]	Rated short-time current (1s) [kA]	Tensile force max. [daN]	Bending radius one-off min. [mm]	Bending radius repeated min. [mm]	Standard length [m]	Standard drum size	Max. production length [m]
4180020	BayEnergy® CPR NYSY 1x50 RM/16 0,6/1kV	Eca	5.0	635.0	18.0	855.00	5.75	250	140	280	1000	120	4000
4180010	BayEnergy® CPR NYSY 1x70 RM/16 0,6/1kV	Eca	5.0	849.0	20.0	1095.00	8.05	350	150	300	1000	120	4000
4180030	BayEnergy® CPR NYSY 1x95 RM/16 0,6/1kV	Eca	6.0	1121.0	22.0	1410.00	10.93	475	160	320	1000	120	3000
4180040	BayEnergy® CPR NYSY 1x120 RM/16 0,6/1kV	Eca	7.0	1377.0	23.0	1690.00	13.80	600	170	340	1000	140	3000
4180050	BayEnergy® CPR NYSY 1x150 RM/25 0,6/1kV	Eca	8.0	1754.0	25.0	2110.00	17.25	750	190	380	1000	140	3000
4180060	BayEnergy® CPR NYSY 1x185 RM/25 0,6/1kV	Eca	9.0	2134.0	27.0	2540.00	21.28	925	210	420	1000	160	3000
4185100	BayEnergy® CPR NYSY 1x240 RM/35 0,6/1kV	Eca	10.0	2815.0	31.0	3285.00	27.60	1200	230	460	1000	160	2000
4180070	BayEnergy® CPR NYSY 1x240 RM/25 0,6/1kV	Eca	10.0	2719.0	31.0	3190.00	27.60	1200	230	460	1000	160	2000
4185000	BayEnergy® CPR NYSYv 1x300 RM/25 0,6/1kV	Eca	15.0	3338.0	35.0	4080.00	34.50	1500	270	540	500	140	2000
4185150	BayEnergy® CPR NYSY 1x300 RM/25 0,6/1kV	Eca	12.0	3338.0	33.0	3880.00	34.50	1500	250	500	500	140	2000
4185160	BayEnergy® CPR NYSY 1x300 RM/35 0,6/1kV	Eca	12.0	3432.0	33.0	3570.00	34.50	1500	250	500	500	140	2000
4185200	BayEnergy® CPR NYSY 1x400 RM/35 0,6/1kV	Eca	14.0	4234.0	37.0	5045.00	41.20	2000	280	560	500	160	1000

Errors and omissions excepted, weights and dimensions are approximate values.

Tensile force only valid when cable sheath and cable core involved.

The bending radius one-off is for professionally installed cables, unique molding over a stencil and a cable temperature >30 °C.

Other designs, fitted lengths and larger delivery lengths on request.

Product Description

Cables for special applications, e.g. as a single-core railway traction current cable for alternating current. Also as a return current cable up to 0.6/1 kV. Preferably for connections in overhead lines and rails, for laying in pipe conduits and trough channels and directly in the ground. The regulations and standards of the transport services apply for the selection of railway traction current cables.

Technical Data

acc. to DIN VDE 0271

Flame retardant and self-extinguishing acc. to EN 60332-1-2

This product is free from silicone, cadmium and substances that inhibit paint wetting

The cables are in compliance with EU LVD (Low Voltage Directive) and RoHS Directive (Restriction of Hazardous Substances) and REACH (European Chemicals Regulation).

[to cable designation code tables :](#)

Conductor resistance	
acc. to IEC 60228/EN 60228	class 1 + 2
Current carrying capacity	
	1-5 cores: acc. to HD 603 S1 Part 3G during regular operation: Table 14+15 in case of short-circuit: Table 17 short-circuit duration max. 5s >5 cores: acc. to HD 627 S1 Part 4H show tables
Rated voltage	
U ₀ /U (IEC)	0,6/1 kV
Voltage test	
AC 50 Hz [V _{eff}]	4 kV
Permissible operating temperatures (cable) [°C]	
Laying (min.)	-5
Operation (max.)	70
Permissible operating temperatures (conductor) [°C]	
Operation (max.)	70
Short-circuit temperature (max.)	160

Errors and omissions excepted, weights and dimensions are approximate values.

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