



HALLEY CABLES

(N)TSCGEWOEU-SR

3.6/6 - 6/10 - 8.7/15 - 12/20 - 14/25 - 18/30 kV

Medium Voltage Power Cable

Rubber insulated and sheathed cable for special uses



www.halleycables.com

Construction:

- Conductor : fine stranded very flexible copper, class 6.
- Insulation : EPR compound with improved electrical and mechanical characteristics.
- Electrical field control : inner and outer layers of semiconducting rubber.
- Core identification : natural colouring with black semiconducting rubber and printed white digits 1 to 3.
- Core arrangement : three main conductors laid-up with protective-earth conductor split into 3 in the outer interstices.
- Inner sheath : special EPR compound, better than 5GM5, acting as water barrier, red colour.
- Anti-torsion reinforcement: braid of polyamide threads in a vulcanized bond between inner and outer sheath being integral part of an outer sheath. Protection from transverse and longitudinal stress.
- Outer sheath : special double layer sheath made of 5GM5 compound, water-, abrasion- and tear-proof.
- Sheath colour : red.

Technical data and tests:

- Rated voltage U₀/U : 3.6/6 to 18/30 kV.
- Test voltage (AC) : 11 to 43 kV.
- Max. voltage allowed (AC) : 4.2/7.2 to 20.8/36 kV.
- Max. voltage allowed (DC) : 5.4/10.8 to 27/54 kV.
- Max. short circuit temperature : 250° C.
- Max. conductor temperature : 90° C.
- Ambient temp. (static condition) : -50 to +90° C.
- Ambient temp. (mobile condition) : -35 to +80° C.
- Pulling stress resistance : up to 20 N/mm².
- Internal torsion resistance : +/- 25°/m.
- Travel speed on gantry (reeling) : 240 m/min.

Standards:

- Cable : DIN VDE 0250 part 813.
- Resistance to oil : EN 60811-2-1, IEC 60811-2-1.
- Flame retardancy : VDE 0482 part 332-1-2, EN 60332-1-2, IEC 60332-1-2.
- Bending radius : VDE 0298 part 3.
- Current rating : VDE 0298 part 4.
- Insulation : DIN VDE 0207 part 20.
- Inner sheath : DIN VDE 0207 part 21.
- Conductor construction : DIN VDE 0295 (IEC 60228).
- Outer sheath : VDE 0207 part 21.

Applications:

This flexible power supply cable is suitable for use in open-pit and underground mining facilities, shipyards and docks for extremely high mechanical stresses during high travel speeds, multiple changes of direction into different planes, dynamic tensile loads etc. The cable is designed mainly for large mobile equipment, excavators, container cranes etc. Its weather resistance is remarkable: it has unrestricted use indoors, outdoors, resistance to ozone, UV and moisture.



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DIMENSIONS

Section and no. of conductors mm ²	Overall cable diameter mm	Weight kg/km	Max. pulling stress N
3.6/6 kV			
3x25+3x25/3	39,4	2730	1500
3x35+3x25/3	42,7	3230	2100
3x50+3x25/3	46,0	3955	3000
3x70+3x35/3	51,3	5130	4200
3x95+3x50/3	56,4	6600	5700
3x120+3x70/3	59,8	7715	7200
3x150+3x70/3	65,3	9090	9000
3x185+3x95/3	69,3	10155	11100
3x240+3x120/3	76,3	12790	14400
3x300+3x150/3	81,4	15310	18000
6/10 kV			
3x25+3x25/3	41,4	2915	1500
3x35+3x25/3	44,8	3450	2100
3x50+3x25/3	47,3	4100	3000
3x70+3x35/3	53,5	5400	4200
3x95+3x50/3	57,7	6790	5700
3x120+3x70/3	61,3	7930	7200
3x150+3x70/3	66,6	9300	9000
3x185+3x95/3	70,6	10380	11100
3x240+3x120/3	78,0	13120	14400
3x300+3x150/3	83,9	15810	18000
8.7/15 kV			
3x25+3x25/3	45,0	3290	1500
3x35+3x25/3	48,2	3840	2100
3x50+3x25/3	51,4	4585	3000
3x70+3x35/3	56,9	5855	4200
3x95+3x50/3	61,2	7280	5700
3x120+3x70/3	66,0	8665	7200
3x150+3x70/3	70,0	9860	9000
3x185+3x95/3	74,1	10980	11100
3x240+3x120/3	81,4	13770	14400
3x300+3x150/3	89,2	16890	18000

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DIMENSIONS

Section and no. of conductors mm ²	Max. sheath diameter mm	Weight kg/km	Max. pulling stress N
12/20 kV			
3x25+3x25/3	48,8	3715	1500
3x35+3x25/3	52,2	3720	2100
3x50+3x25/3	55,6	5120	3000
3x70+3x35/3	60,3	6340	4200
3x95+3x50/3	65,6	7950	5700
3x120+3x70/3	68,7	9100	7200
3x150+3x70/3	73,0	10380	9000
3x185+3x95/3	78,7	11820	11100
3x240+3x120/3	84,8	14460	14400
3x300+3x150/3	91,2	17330	18000
14/25 kV			
3x25+3x25/3	54,1	4370	1500
3x35+3x25/3	57,7	5040	2100
3x50+3x25/3	59,9	5720	3000
3x70+3x35/3	65,4	7100	4200
3x95+3x50/3	70,3	8715	5700
3x120+3x70/3	73,2	9870	7200
3x150+3x70/3	78,5	11380	9000
3x185+3x95/3	82,6	12575	11100
3x240+3x120/3	90,1	15565	14400
3x300+3x150/3	95,5	18300	18000
18/30 kV			
3x25+3x25/3	57,6	4830	1500
3x35+3x25/3	61,2	5530	2100
3x50+3x25/3	63,3	6230	3000
3x70+3x35/3	69,7	7790	4200
3x95+3x50/3	73,7	9300	5700
3x120+3x70/3	77,7	10660	7200
3x150+3x70/3	82,0	12040	9000
3x185+3x95/3	86,0	13270	11100
3x240+3x120/3	93,6	16320	14400
3x300+3x150/3	99,9	19320	18000

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