



HALLEY CABLES

(N)TSCGEWOEU-TR

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 flexible, tinned, electrolytic copper, class 5.
- Protective earth conductor: very finely stranded flexible, tinned, electrolytic 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.
- Reinforcement : extremely tear-resistant reinforcing tape preventing sheath movements and protecting from transverse and longitudinal stress.
- Inner and outer sheath : special EPR based 5GM5 compound with special tear- and abrasion resistance characteristics, inner and outer sheath being inseparably bonded.
- Sheath colour : black.

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) : -40 to +90° C.
- Ambient temp. (mobile condition) : -25 to +80° C.
- Pulling stress resistance : 15 N/mm².
- Internal torsion resistance : +/- 100°/m.

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 and outer sheath : DIN VDE 0207 part 21.
- Conductor construction : EN 60228, DIN VDE 0295.
- Protective earth conductor: EN 60228, DIN VDE 0295

Applications:

Flexible cable for power supply or connections for large material handling or mining machines in open-pit mines where exposed to extremely high mechanical stresses, abrasion and tear usually during trailing operation. 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	Conductor resistance at 20°C Ohm/km	Unit inductance length mH/km	Operating capacitance µF/km	Current carrying capacity at 30°C A	Short circuit current max 1s kA	Weight kg/km	Max. pulling stress N
3.6/6 kV								
3x25+3x25/3	45,8	0,795	0,36	0,34	131	3,05	3120	1125
3x35+3x25/3	48,0	0,565	0,34	0,39	162	4,27	3500	1575
3x50+3x25/3	52,4	0,393	0,32	0,43	202	6,10	4289	2250
3x70+3x35/3	57,1	0,277	0,30	0,49	250	8,54	5450	3150
3x95+3x50/3	61,7	0,210	0,29	0,54	301	11,59	6750	4275
3x120+3x70/3	64,3	0,164	0,28	0,60	352	14,64	7650	5400
3x150+3x50/3	70,1	0,132	0,27	0,65	404	18,30	9015	6750
3x185+3x95/3	75,8	0,108	0,27	0,70	461	22,57	10755	8325
6/10 kV								
3x25+3x25/3	48,1	0,795	0,37	0,31	131	3,05	3365	1125
3x35+3x25/3	50,3	0,565	0,34	0,35	162	4,27	3750	1575
3x50+3x25/3	54,5	0,393	0,33	0,39	202	6,10	4540	2250
3x70+3x35/3	59,4	0,277	0,31	0,44	250	8,54	5745	3150
3x95+3x50/3	63,0	0,210	0,30	0,49	301	11,59	6925	4275
3x120+3x70/3	66,4	0,164	0,29	0,54	352	14,64	7960	5400
3x150+3x50/3	72,4	0,132	0,28	0,58	404	18,30	9370	6750
3x150+3x70/3	72,4	0,132	0,28	0,58	404	18,30	9380	6750
3x185+3x50/3	77,9	0,108	0,28	0,63	461	22,57	10970	8325
3x185+3x95/3	77,9	0,108	0,27	0,63	461	22,57	11120	8325
8.7/15 kV								
3x25+3x25/3	53,7	0,795	0,39	0,25	139	3,05	4000	1125
3x35+3x25/3	55,8	0,565	0,37	0,28	172	4,27	4410	1575
3x50+3x25/3	60,2	0,393	0,35	0,31	215	6,10	5270	2250
3x70+3x35/3	64,9	0,277	0,33	0,35	265	8,54	6520	3150
3x95+3x50/3	69,6	0,210	0,32	0,39	319	11,59	7900	4275
3x120+3x70/3	72,1	0,164	0,31	0,42	371	14,64	8840	5400
3x150+3x70/3	77,9	0,132	0,30	0,46	428	18,30	10300	6750
3x185+3x95/3	83,6	0,108	0,29	0,50	488	22,57	12140	8325

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12/20 kV								
3x25+3x25/3	58,0	0,795	0,41	0,22	139	3,05	4530	1125
3x35+3x25/3	61,1	0,565	0,39	0,25	172	4,27	5100	1575
3x50+3x25/3	65,3	0,393	0,37	0,27	215	6,10	5985	2250
3x70+3x35/3	70,2	0,277	0,35	0,30	265	8,54	7310	3150
3x95+3x50/3	73,9	0,210	0,33	0,33	319	11,59	8580	4275
3x120+3x70/3	77,2	0,164	0,32	0,36	371	14,64	9690	5400
3x150+3x70/3	83,2	0,132	0,31	0,39	428	18,30	11250	6750
3x185+3x95/3	88,5	0,108	0,30	0,42	488	22,57	13100	8325
14/25 kV								
3x25+3x25/3	65,3	0,795	0,43	0,19	139	3,05	5550	1125
3x35+3x25/3	67,5	0,565	0,41	0,21	172	4,27	6020	1575
3x50+3x25/3	71,9	0,393	0,39	0,23	215	6,10	6990	2250
3x70+3x35/3	76,6	0,277	0,37	0,25	265	8,54	8350	3150
3x95+3x50/3	81,3	0,210	0,35	0,28	319	11,59	9850	4275
3x120+3x70/3	83,8	0,164	0,34	0,30	371	14,64	10870	5400
3x150+3x70/3	89,6	0,132	0,33	0,33	428	18,30	12480	6750
3x185+3x95/3	95,3	0,108	0,32	0,35	488	22,57	14470	8325
18/30 kV								
3x25+3x25/3	71,5	0,795	0,45	0,17	139	3,05	6480	1125
3x35+3x25/3	73,7	0,565	0,43	0,19	172	4,27	6980	1575
3x50+3x25/3	77,9	0,393	0,40	0,21	215	6,10	7990	2250
3x70+3x35/3	82,8	0,277	0,38	0,23	265	8,54	9440	3150
3x95+3x50/3	86,4	0,210	0,37	0,25	319	11,59	10810	4275
3x120+3x70/3	89,8	0,164	0,35	0,27	371	14,64	12020	5400
3x150+3x70/3	95,7	0,132	0,34	0,29	428	18,30	13740	6750
3x185+3x95/3	101,3	0,108	0,33	0,31	488	22,57	15770	8325

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