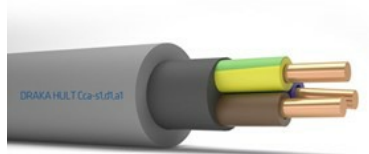


HULT Cca

Halogen free installation cable



NEN: YMz₁Kmbzh 0,6/1kV

Application

- Halogen free power and control cable for general use in low voltage installations up to 1 kV, suitable for all applications indicated in NEN 1010, especially when stringent demands on fire safety apply
- Suitable for humid conditions
- Can be applied in unfavourable conditions, like an increased ambient temperature, and in cable bundles
- The multicore versions are mainly used for auxiliary current cables and also for measurement and control purposes

Properties regarding fire performance:

CPR Euroclass Cca (En 50575). For downloading the Declaration of Performance (DoP) go to www.draka.nl/dop (the DoP number is printed on the product label).

Remarks:

- Use HULTO Cca or HULTO Cca or HULTA Cca or HULTA Cca in case of direct burial
- For cross-section of 35 mm² and above see HULTFLEX Cca or HULTFLEX Cca

Construction

Conductor: plain annealed copper, round $\leq 6 \text{ mm}^2$: solid (class 1) $\geq 10 \text{ mm}^2$: stranded (class 2)
 Insulation: cross-linked polyethylene (XLPE)
 Assembly 2 up to 8 cores: cores cabled together, filled to make a round shape ≥ 10 cores: cores cabled together, wrapped with polyester foil
 Outer sheath: halogen free flame retardant thermoplastic (LSOH)

Electrical data

Voltage rating: 0,6/1 kV
 Test voltage: 3,5 kV

Core colours

- 1 core: black
- 2 cores: brown, blue
- 3 cores: brown, black, grey (x-version)
 brown, blue, green-and-yellow (G-version)
 brown, black, blue (variant-version)
- 4 cores: brown, black, grey, blue (x-version)
 brown, black, grey, green-and-yellow (G-version)
 brown, black, blue, green-and-yellow (variant-version)
- 5 cores: brown, black, grey, black, blue (x-version)
 brown, black, grey, blue, green-and-yellow (G-version)

Construction data

Conductor material	Cu, bare
Shape of conductor	Round
Core insulation	XLPE (VPE)
Protective conductor	Yes
Material outer sheath	Copolymer, thermoplastic
Colour outer sheath	Grey

Properties

Max. conductor temperature	90 °C
Permitted cable outer temperature, in movement	-20 / 80 °C
Permitted cable outer temperature, fixed	-40 / 80 °C
Oil resistant	Good
Euro fire class acc. EN 13501-6	Cca
Euro class smoke production acc. EN 13501-6	s1
Euro class flaming droplets / particles acc. EN 13501-6	d1
Euro class acidity acc. EN 13501-6	a1

Electrical

Nominal voltage U ₀	0.6 kV
Nominal voltage U	1 kV

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HULT Cca

Halogen free installation cable

Multi cores: one core green-and-yellow, other cores black numbered (G-version)

Standards/References

NEN 3618
K 42C-1-5
HD 604-5-C
EN 50575
NEN 8012

Additional information

Minimum installation temperature: -20 °C
Maximum conductor temperature: +90 °C (temporary overload permissible until + 130 °C)
Operation temperature: min. -40 °C, max. +80 °C
Outer sheath: grey
Approval: KEMA-KEUR
Packaging: boxes, coils, drums

HULT Cca

Halogen free installation cable

Product Range

Product nr.	No. of cores and conductor cross-section ¹ (n x mm ²)	Nominal diameter over insulation (mm)	Nominal overall diameter (mm)	Minimum bending radius (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)	DoP number
821634	1x6	4	7,0	30	145	95	1004488
821635	1x10	5,3	11,7	60	410	240	1004489
821636	1x16	6,4	12,8	80	490	315	1004490
821637	1x25	8,1	14,5	90	630	435	1004491
828925	1x630	37,3	43,8	220	5755	6545	1005711
820935	2x1,5	2,7	10,0	50	300	130	1003126
818942	2x2,5	3,1	10,8	55	345	155	1003110
821644	2x4	3,5	11,7	60	410	230	1003134
821645	2x6	4	12,6	80	475	285	1003135
821646	2x10	5,3	15,2	95	690	435	1003248
821647	2x16	6,4	17,3	105	895	605	1003249
821648	2x25	8,1	20,7	145	1285	895	1003250
820938	3x1,5	2,7	10,4	55	320	150	1003127
824305	3x2,5	3,1	11,3	60	380	185	1003175
818471	3x2,5	3,1	11,3	60	380	185	1003099
825897	3x2,5 var	3,1	11,3	60	380	185	1003177
821652	3x4	3,5	12,2	75	445	270	1003136
821653	3x6	4	13,3	80	530	345	1003137
821654	3x10	5,3	16,0	100	765	525	1003251
823551	3x10	5,3	16,0	100	765	525	1003262
823585	3x16	6,4	18,3	110	1000	745	1003263
821655	3x16	6,4	18,3	110	1000	745	1003252
823586	3x25	8,1	22,0	155	1450	1115	1003264
821665	4x1,5	2,7	11,2	60	375	175	1003138
825899	4x1,5 var	2,7	11,2	60	375	175	1003265
818983	4x2,5	3,1	12,1	75	435	225	1003117
825898	4x2,5 var	3,1	12,1	75	435	225	1003178
818984	4x4	3,5	13,1	80	510	320	1003118
832106	4x4 var	3,5	13,1	80	510	320	1003268
818985	4x6	4	14,3	90	610	415	1003119
832940	4x10	5,3	17,4	105	905	640	1003270
821666	4x10	5,3	17,4	105	905	640	1003253
821667	4x16	6,4	20,0	120	1200	920	1003532
823231	4x16	6,4	20,0	120	1200	920	1003261
832938	4x25	8,1	24,0	170	1725	1390	1003269
821668	4x25	8,1	24,0	170	1725	1390	1003254
821675	5x1,5	2,7	12,0	60	430	225	1003139
820181	5x2,5	3,1	12,8	80	490	275	1003123
821676	5x4	3,5	14,2	90	600	375	1003140
820344	5x6	4	15,5	95	720	490	1003124
820337	5x10	5,3	19,0	115	1080	775	1003530
820334	5x16	6,4	21,8	155	1425	1115	1003429
820340	5x25	8,1	26,4	185	2090	1700	1003531
821678	6x1,5	2,7	12,7	80	480	255	1003255
821679	6x2,5	3,1	13,8	85	570	330	1003256
821680	7x1,5	2,7	12,8	80	490	265	1003257
821681	7x2,5	3,1	13,9	85	575	350	1003258

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HULT Cca

Halogen free installation cable

Product nr.	No. of cores and conductor cross-section ¹ (n x mm ²)	Nominal diameter over insulation (mm)	Nominal overall diameter (mm)	Minimum bending radius (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)	DoP number
821682	8x1,5	2,7	16,0	100	765	385	1003571
821683	8x2,5	3,1	17,2	105	885	480	1003572
821684	10x1,5	2,7	17,7	110	935	455	1003573
821685	10x2,5	3,1	19,2	120	1105	575	1003574
821686	12x1,5	2,7	18,2	110	990	495	1003575
821687	12x2,5	3,1	19,7	120	1160	635	1003576
819009	14x1,5	2,7	18,9	115	1070	540	1003570
821688	14x2,5	3,1	20,5	145	1260	700	1003577
821689	16x1,5	2,7	19,7	120	1160	595	1003578
821690	16x2,5	3,1	21,4	150	1370	775	1003579
821691	19x1,5	2,7	20,5	145	1260	655	1003580
821692	19x2,5	3,1	19,4	120	1125	650	
821693	24x1,5	2,7	23,1	165	1600	800	1003581
821694	24x2,5	3,1	22,4	160	1505	810	
818472	30x1,5	2,7	24,3	175	1770	920	1003349
823070	30x2,5	3,1	26,7	190	2135	1245	1003582
821697	37x1,5	2,7	23,0	165	1585	820	
821698	37x2,5	3,1	25,6	180	1965	1180	

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core. Cable types with variant colours are indicated with "var".

HULT Cca

Halogen free installation cable

Electrical features

Product nr.	No. of cores and conductor cross-section ¹ (n x mm ²)	Conductor resistance at 20 °C, DC (ohm/km)	Conductor resistance at 90 °C, 50 Hz (ohm/km)	Maximum current rating ² (A)	Working self-inductance ³ (mH/km)	Working capacitance ⁴ (nF/km)
821634	1x6	3,08	3,93	52	-	-
821635	1x10	1,83	2,33	74	-	-
821636	1x16	1,15	1,47	101	-	-
821637	1x25	0,727	0,927	135	-	-
828925	1x630	0,0283	0,0412	1088	-	approx. -
820935	2x1,5	12,1	15,4	26	0,33	approx. 55
818942	2x2,5	7,41	9,45	36	0,31	approx. 63
821644	2x4	4,61	5,88	49	0,29	approx. 68
821645	2x6	3,08	3,93	63	0,27	approx. 72
821646	2x10	1,83	2,33	86	0,26	approx. 82
821647	2x16	1,15	1,47	115	0,25	approx. 92
821648	2x25	0,727	0,927	149	0,24	approx. 95
820938	3x1,5	12,1	15,4	26	0,33	approx. 56
824305	3x2,5	7,41	9,45	32	0,31	approx. 126
818471	3x2,5	7,41	9,45	36	0,31	approx. 63
825897	3x2,5 var	7,41	9,45	32	0,31	approx. 126
821652	3x4	4,61	5,88	49	0,29	approx. 68
821653	3x6	3,08	3,93	63	0,27	approx. 72
821654	3x10	1,83	2,33	86	0,26	approx. 82
823551	3x10	1,83	2,33	75	0,26	approx. 165
823585	3x16	1,15	1,47	100	0,25	approx. 183
821655	3x16	1,15	1,47	115	0,25	approx. 91
823586	3x25	0,727	0,927	127	0,24	approx. 195
821665	4x1,5	12,1	15,4	23	0,37	approx. 123
825899	4x1,5 var	12,1	15,4	23	0,37	approx. 123
818983	4x2,5	7,41	9,45	32	0,35	approx. 142
825898	4x2,5 var	7,41	9,45	32	0,35	approx. 142
818984	4x4	4,61	5,88	42	0,33	approx. 150
832106	4x4 var	4,61	5,88	42	0,33	approx. 150
818985	4x6	3,08	3,93	54	0,32	approx. 159
832940	4x10	1,83	2,33	75	-	229
821666	4x10	1,83	2,33	75	0,29	approx. 185
821667	4x16	1,15	1,47	100	0,28	approx. 212
823231	4x16	1,15	1,47	100	0,28	approx. 212
832938	4x25	0,727	0,927	127	0,28	227
821668	4x25	0,727	0,927	127	0,28	approx. 227
821675	5x1,5	12,1	15,4	23	0,41	approx. 128
820181	5x2,5	7,41	9,45	32	0,38	approx. 147
821676	5x4	4,61	5,88	42	0,36	approx. 155
820344	5x6	3,08	3,93	54	0,34	approx. 164
820337	5x10	1,83	2,33	75	0,32	approx. 190
820334	5x16	1,15	1,47	100	0,31	approx. 217
820340	5x25	0,727	0,927	127	0,3	approx. 232
821678	6x1,5	12,1	15,4	18	-	=< 150
821679	6x2,5	7,41	9,45	25	-	=< 160
821680	7x1,5	12,1	15,4	17	-	=< 150
821681	7x2,5	7,41	9,45	23	-	=< 160

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Halogen free installation cable

Product nr.	No. of cores and conductor cross-section ¹ (n x mm ²)	Conductor resistance at 20 °C, DC (ohm/km)	Conductor resistance at 90 °C, 50 Hz (ohm/km)	Maximum current rating ² (A)	Working self-inductance ³ (mH/km)	Working capacitance ⁴ (nF/km)
821682	8x1,5	12,1	15,4	16	-	= < 150
821683	8x2,5	7,41	9,45	22	-	= < 160
821684	10x1,5	12,1	15,4	14	-	= < 150
821685	10x2,5	7,41	9,45	19	-	= < 160
821686	12x1,5	12,1	15,4	13	-	= < 150
821687	12x2,5	7,41	9,45	18	-	= < 160
819009	14x1,5	12,1	15,4	12	-	= < 150
821688	14x2,5	7,41	9,45	17	-	= < 160
821689	16x1,5	12,1	15,4	11,5	-	= < 150
821690	16x2,5	7,41	9,45	16	-	= < 160
821691	19x1,5	12,1	15,4	11	-	= < 150
821692	19x2,5	7,41	9,45	15	-	= < 160
821693	24x1,5	12,1	15,4	9,5	-	= < 150
821694	24x2,5	7,41	9,45	13	-	= < 160
818472	30x1,5	12,1	15,4	8,5	-	= < 150
823070	30x2,5	7,41	9,45	12,5	-	= < 160
821697	37x1,5	12,1	15,4	8	-	= < 150
821698	37x2,5	7,41	9,45	12	-	= < 160

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core. Cable types with variant colours are indicated with "var".

2) The maximum current rating applies to one cable in free air, at an ambient temperature of 30 °C, in accordance with NEN 1010:2007 table A.52-13. Correction factors for other circumstances are given in table A.52-15 and A.52-18. The maximum current for a single core cable is given in column 5 (three single core cables loaded in a triangular configuration). For 2- en 3-cores loaded cables respectively column 2 and 3 are applicable. For 4- and 5-cores cables the maximum current is given for 3 cores loaded. For multicore cables the maximum rating is based on table A.52-3.

3) For 4- and 5-cores cables the working self-inductance for 2 not adjacent cores is given. For multi core cables the values are available on request.

4) The working capacitance for asymmetric alternating current- or symmetric three phase current. The working capacitance of multi core cable is depending of the circuit.