

VULT Dca

Power cable



GENERAL INFO

Product description

VULT Dca is a **power and control cable** for low-voltage installations from 0,6 to 1 kV with PVC outer sheath. The cable can be used in humid spaces, in situations with a high ambient temperature, and in cable bundles. The cable is suitable for building installations, residential construction, and industrial installations.

The cable is easy to strip thanks to the used filling and sheath materials.

VULT Dca meets fire grade **Dca-s2,d2,a3** according to NEN-EN 50575 for use in buildings with a normal fire risk according to NEN 8012.

Generic name(s)

YMKV

CERTIFICATIONS AND DESIGN STANDARDS

Certifications and approvals



Standards

HD 604-4-D
K42C-1-4-D
NEN 3617

CABLE DESIGN

Conductor material

Copper

Conductor surface

Bare

Core insulation material

XLPE

Core identification (acc. HD 308 S2)

Yes

Material outer sheath

Polyvinyl chloride (PVC)

Cable shape

Round

APPLICATION PROPERTIES

Nominal voltage U ₀ [V]	600
Nominal voltage U [V]	1,000
Test voltage [kV]	3.5
Oil resistant	acc. IEC/EN 60811-404
Max. conductor temperature [°C]	90
Min. outer temperature, fixed installation [°C]	-40
Max. outer temperature, fixed installation [°C]	80
UV resistant	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	0
Max. outer temperature during installation [°C]	80

FIRE PROPERTIES

Flame retardant	In accordance with EN 13501-6
CPR Euroclass reaction to fire	Dca
CPR Euroclass smoke development	s2
CPR Euroclass flaming particles	d2
CPR Euroclass acidity	a3

PRODUCT RANGE

Product code	Basic construction	Conductor category	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Min. bending radius, fixed [mm]	DOP number	Core colours
835545	2x1,5 mm ²	Class 1 = solid	Grey	9.5	127	50	1013780	blue - brown
835512	3x1,5 mm ²	Class 1 = solid	Grey	9.9	144	50	1013747	brown - black - grey
835543	3G1,5 mm ²	Class 1 = solid	Grey	9.9	144	50	1013778	yellow/green - blue - brown
835542	4G1,5 mm ²	Class 1 = solid	Grey	11	177	55	1013777	yellow/green - brown - black - grey
835511	4x1,5 mm ²	Class 1 = solid	Grey	11	177	55	1013746	blue - brown - black - grey
835475	4G1,5 mm ²	Class 1 = solid	Grey	11	177	55	1013715	yellow/green - blue - brown - black
835466	4G25 mm ²	Class 1 = solid	Grey	23.5	1,336	120	1013706	yellow/green - blue - brown - black
835541	5G1,5 mm ²	Class 1 = solid	Grey	12	210	60	1013776	yellow/green - blue - brown - black - grey
835508	6G1,5 mm ²	Class 1 = solid	Grey	12.7	236	80	1013743	yellow/green - black with white printed numbering
835540	7G1,5 mm ²	Class 1 = solid	Grey	12.8	245	80	1013775	yellow/green - black with white printed numbering
835526	8G1,5 mm ²	Class 1 = solid	Grey	13.7	273	85	1013761	yellow/green - black with white printed numbering
835538	10G1,5 mm ²	Class 1 = solid	Grey	15.4	343	95	1013773	yellow/green - black with white printed numbering
835525	12G1,5 mm ²	Class 1 = solid	Grey	15.9	380	100	1013760	yellow/green - black with white printed numbering
835514	14G1,5 mm ²	Class 1 = solid	Grey	16.6	422	100	1013749	yellow/green - black with white printed numbering

PRODUCT RANGE

Product code	Basic construction	Conductor category	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Min. bending radius, fixed [mm]	DOP number	Core colours
835534	16G1,5 mm ²	Class 1 = solid	Grey	17.4	471	105	1013769	yellow/green - black with white printed numbering
835537	19G1,5 mm ²	Class 1 = solid	Grey	18.2	526	110	1013772	yellow/green - black with white printed numbering
835507	24G1,5 mm ²	Class 1 = solid	Grey	20.8	652	150	1013742	yellow/green - black with white printed numbering
835506	30G1,5 mm ²	Class 1 = solid	Grey	22	765	155	1013741	yellow/green - black with white printed numbering
835501	37G1,5 mm ²	Class 1 = solid	Grey	23.6	905	170	1013736	yellow/green - black with white printed numbering
835544	2x2,5 mm ²	Class 1 = solid	Grey	10.3	158	55	1013779	blue - brown
835547	3G2,5 mm ²	Class 1 = solid	Grey	10.7	182	55	1013782	yellow/green - blue - brown
835476	3x2,5 mm ²	Class 1 = solid	Grey	10.8	183	55	1013716	blue - brown - black
835503	3x2,5 mm ²	Class 1 = solid	Grey	10.8	183	55	1013738	brown- black - grey
835474	4G2,5 mm ²	Class 1 = solid	Grey	11.9	215	60	1013714	yellow/green - blue - brown - black
835532	4G2,5 mm ²	Class 1 = solid	Grey	11.9	215	60	1013767	yellow/green - brown - black - grey
835495	4x2,5 mm ²	Class 1 = solid	Grey	11.9	227	60	1013730	blue - brown - black - grey
835531	5G2,5 mm ²	Class 1 = solid	Grey	12.7	264	80	1013766	yellow/green - blue - brown - black - grey
835528	6G2,5 mm ²	Class 1 = solid	Grey	13.6	309	85	1013763	yellow/green - black with white printed numbering

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Product code	Basic construction	Conductor category	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Min. bending radius, fixed [mm]	DOP number	Core colours
835527	7G2,5 mm ²	Class 1 = solid	Grey	13.9	324	85	1013762	yellow/green - black with white printed numbering
835517	8G2,5 mm ²	Class 1 = solid	Grey	14.9	370	90	1013752	yellow/green - black with white printed numbering
835516	10G2,5 mm ²	Class 1 = solid	Grey	16.9	457	105	1013751	yellow/green - black with white printed numbering
835515	12G2,5 mm ²	Class 1 = solid	Grey	17.4	511	105	1013750	yellow/green - black with white printed numbering
835505	14G2,5 mm ²	Class 1 = solid	Grey	18.2	572	110	1013740	yellow/green - black with white printed numbering
835533	16G2,5 mm ²	Class 1 = solid	Grey	19.1	640	115	1013768	yellow/green - black with white printed numbering
835513	19G2,5 mm ²	Class 1 = solid	Grey	20.1	725	145	1013748	yellow/green - black with white printed numbering
835502	24G2,5 mm ²	Class 1 = solid	Grey	23.1	903	165	1013737	yellow/green - black with white printed numbering
835504	30G2,5 mm ²	Class 1 = solid	Grey	24.4	1,070	175	1013739	yellow/green - black with white printed numbering
835500	37G2,5 mm ²	Class 1 = solid	Grey	26.2	1,275	185	1013735	yellow/green - black with white printed numbering
835536	2x4 mm ²	Class 1 = solid	Grey	11.2	200	60	1013771	blue - brown
835535	3G4 mm ²	Class 1 = solid	Grey	11.7	238	60	1013770	yellow/green - blue - brown
835468	4G4 mm ²	Class 1 = solid	Grey	12.6	289	80	1013708	yellow/green - blue - brown - black
835490	4x4 mm ²	Class 1 = solid	Grey	12.9	289	80	1013725	blue - brown - black - grey

PRODUCT RANGE

Product code	Basic construction	Conductor category	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Min. bending radius, fixed [mm]	DOP number	Core colours
835518	4G4 mm ²	Class 1 = solid	Grey	12.9	289	80	1013753	yellow/green - brown - black - grey
835530	5G4 mm ²	Class 1 = solid	Grey	13.7	345	85	1013765	yellow/green - blue - brown - black - grey
835519	7G4 mm ²	Class 1 = solid	Grey	15.3	448	95	1013754	yellow/green - black with white printed numbering
835705	1x6 mm ²	Class 1 = solid	Grey	7.8	109	35	1013817	black
835498	2x6 mm ²	Class 1 = solid	Grey	12.1	255	75	1013733	blue - brown
835509	3G6 mm ²	Class 1 = solid	Grey	12.8	310	80	1013744	yellow/green - blue - brown
835470	4G6 mm ²	Class 1 = solid	Grey	13.8	379	85	1013710	yellow/green - blue - brown - black
835539	4G6 mm ²	Class 1 = solid	Grey	13.8	380	85	1013774	yellow/green - brown - black - grey
835491	4x6 mm ²	Class 1 = solid	Grey	14.1	395	85	1013726	blue - brown - black - grey
835529	5G6 mm ²	Class 1 = solid	Grey	15	458	95	1013764	yellow/green - blue - brown - black - grey
835704	1x10 mm ²	Class 2 = stranded	Grey	9.1	161	50	1013816	black
835497	2x10 mm ²	Class 2 = stranded	Grey	14.7	400	90	1013732	blue - brown
835465	3G10 mm ²	Class 2 = stranded	Grey	15.5	488	100	1013705	yellow/green - blue - brown
835496	3x10 mm ²	Class 2 = stranded	Grey	15.5	488	95	1013731	brown - black - grey

PRODUCT RANGE

Product code	Basic construction	Conductor category	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Min. bending radius, fixed [mm]	DOP number	Core colours
835521	4G10 mm ²	Class 2 = stranded	Grey	16.9	602	105	1013756	yellow/green - brown - black - grey
835492	4x10 mm ²	Class 2 = stranded	Grey	16.9	602	105	1013727	blue - brown - black - grey
835471	4G10 mm ²	Class 2 = stranded	Grey	16.9	602	105	1013711	yellow/green - blue - brown - black
835463	4G10 mm ²	Class 2 = stranded	Grey	16.9	603	105	1013703	black - blue - brown - black with white stripe
835524	5G10 mm ²	Class 2 = stranded	Grey	18.5	732	115	1013759	yellow/green - blue - brown - black - grey
835706	1x16 mm ²	Class 2 = stranded	Grey	10.2	226	55	1013818	black
835493	2x16 mm ²	Class 2 = stranded	Grey	16.8	566	105	1013728	blue - brown
835522	3x16 mm ²	Class 2 = stranded	Grey	17.8	704	110	1013757	brown - black - grey
835473	3G16 mm ²	Class 2 = stranded	Grey	17.8	704	105	1013713	yellow/green - blue - brown
835478	4x16 mm ²	Class 2 = stranded	Grey	19.5	877	120	1013718	black - blue - brown - black with white stripe
835472	4x16 mm ²	Class 2 = stranded	Grey	19.5	877	120	1013712	blue - brown - black - grey
835546	4G16 mm ²	Class 2 = stranded	Grey	19.5	877	120	1013781	yellow/green - brown - black - grey
835469	4G16 mm ²	Class 2 = stranded	Grey	19.5	877	120	1013709	yellow/green - blue - brown - black
835523	5G16 mm ²	Class 2 = stranded	Grey	21.3	1,069	150	1013758	yellow/green - blue - brown - black - grey

PRODUCT RANGE

Product code	Basic construction	Conductor category	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Min. bending radius, fixed [mm]	DOP number	Core colours
835707	1x25 mm ²	Class 2 = stranded	Grey	11.9	330	60	1013819	black
835494	2x25 mm ²	Class 2 = stranded	Grey	20.2	850	145	1013729	blue - brown
835943	3G25 mm ²	Class 2 = stranded	Grey	21.5	1,066	130	1013839	yellow/green - blue - brown
835510	3x25 mm ²	Class 2 = stranded	Grey	21.5	1,066	155	1013745	brown - black - grey
835467	4x25 mm ²	Class 2 = stranded	Grey	23.5	1,335	145	1013707	black - blue - brown - black with white stripe
835477	4x25 mm ²	Class 2 = stranded	Grey	23.5	1,336	165	1013717	blue - brown - black - grey
835499	4G25 mm ²	Class 2 = stranded	Grey	23.5	1,336	165	1013734	yellow/green - brown - black - grey
835520	5G25 mm ²	Class 2 = stranded	Grey	25.9	1,641	185	1013755	yellow/green - blue - brown - black - grey

ELECTRICAL PROPERTIES

Product code	Basic construction	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
835545	2x1,5 mm ²	26	12.1	15.4	150	150
835512	3x1,5 mm ²	23	12.1	15.4	225	225
835543	3G1,5 mm ²	26	12.1	15.4	225	225
835542	4G1,5 mm ²	23	12.1	15.4	300	300
835511	4x1,5 mm ²	23	12.1	15.4	300	300
835475	4G1,5 mm ²	23	12.1	15.4	300	300
835466	4G25 mm ²				300	300
835541	5G1,5 mm ²	23	12.1	15.4	375	375
835508	6G1,5 mm ²	18	12.1	15.4	450	450
835540	7G1,5 mm ²	17	12.1	15.4	525	490
835526	8G1,5 mm ²	16	12.1	15.4	600	560
835538	10G1,5 mm ²	14	12.1	15.4	750	710
835525	12G1,5 mm ²	13	12.1	15.4	900	755
835514	14G1,5 mm ²	12	12.1	15.4	1,050	825

ELECTRICAL PROPERTIES

Product code	Basic construction	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
835534	16G1,5 mm ²	11.5	12.1	15.4	1,200	905
835537	19G1,5 mm ²	11	12.1	15.4	1,425	990
835507	24G1,5 mm ²	9.5	12.1	15.4	1,800	1,295
835506	30G1,5 mm ²	8.5	12.1	15.4	2,250	1,450
835501	37G1,5 mm ²	8	12.1	15.4	2,775	1,670
835544	2x2,5 mm ²	36	7.41	9.45	250	250
835547	3G2,5 mm ²	36	7.41	9.45	375	340
835476	3x2,5 mm ²	32	7.41	9.45	375	345
835503	3x2,5 mm ²	32	7.41	9.45	375	345
835474	4G2,5 mm ²	32	7.41	9.45	500	420
835532	4G2,5 mm ²	32	7.41	9.45	500	420
835495	4x2,5 mm ²	32	7.41	9.45	500	420
835531	5G2,5 mm ²	32	7.41	9.45	625	480
835528	6G2,5 mm ²	25	7.41	9.45	750	550

ELECTRICAL PROPERTIES

Product code	Basic construction	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
835527	7G2,5 mm ²	23	7.41	9.45	875	575
835517	8G2,5 mm ²	22	7.41	9.45	1,000	665
835516	10G2,5 mm ²	19	7.41	9.45	1,250	855
835515	12G2,5 mm ²	18	7.41	9.45	1,500	905
835505	14G2,5 mm ²	17	7.41	9.45	1,750	990
835533	16G2,5 mm ²	16	7.41	9.45	2,000	1,090
835513	19G2,5 mm ²	15	7.41	9.45	2,375	1,210
835502	24G2,5 mm ²	13.5	7.41	9.45	3,000	1,600
835504	30G2,5 mm ²	12.5	7.41	9.45	3,750	1,785
835500	37G2,5 mm ²	12	7.41	9.45	4,625	2,055
835536	2x4 mm ²	49	4.61	5.88	400	375
835535	3G4 mm ²	49	4.61	5.88	600	410
835468	4G4 mm ²	42	4.61	5.88	800	475
835490	4x4 mm ²	42	4.61	5.88	800	495

ELECTRICAL PROPERTIES

Product code	Basic construction	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
835518	4G4 mm ²	42	4.61	5.88	800	495
835530	5G4 mm ²	42	4.61	5.88	1,000	560
835519	7G4 mm ²	42	4.61	5.88	1,400	700
835705	1x6 mm ²	52	3.08	3.93	300	180
835498	2x6 mm ²	63	3.08	3.93	600	435
835509	3G6 mm ²	63	3.08	3.93	900	490
835470	4G6 mm ²	54	3.08	3.93	1,200	570
835539	4G6 mm ²	54	3.08	3.93	1,200	570
835491	4x6 mm ²	54	3.08	3.93	1,200	595
835529	5G6 mm ²	54	3.08	3.93	1,500	675
835704	1x10 mm ²	74	1.83	2.33	500	245
835497	2x10 mm ²	86	1.83	2.33	1,000	645
835465	3G10 mm ²	75	1.83	2.33	1,500	720
835496	3x10 mm ²	75	1.83	2.33	1,500	720

ELECTRICAL PROPERTIES

Product code	Basic construction	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
835521	4G10 mm ²	75	1.83	2.33	2,000	855
835492	4x10 mm ²	75	1.83	2.33	2,000	855
835471	4G10 mm ²	75	1.83	2.33	2,000	855
835463	4G10 mm ²	75	1.83	2.33	2,000	855
835524	5G10 mm ²	75	1.83	2.33	2,500	1,025
835706	1x16 mm ²	101	1.15	1.47	800	310
835493	2x16 mm ²	115	1.15	1.47	1,600	845
835522	3x16 mm ²	100	1.15	1.47	2,400	950
835473	3G16 mm ²				2,400	950
835478	4x16 mm ²	100	1.15	1.47	3,200	1,140
835472	4x16 mm ²	100	1.15	1.47	3,200	1,140
835546	4G16 mm ²	100	1.15	1.47	3,200	1,140
835469	4G16 mm ²	100	1.15	1.47	3,200	1,140
835523	5G16 mm ²	100	1.15	1.47	4,000	1,360

ELECTRICAL PROPERTIES

Product code	Basic construction	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
835707	1x25 mm ²	135	0.727	0.927	1,250	420
835494	2x25 mm ²	149	0.727	0.927	2,500	1,220
835943	3G25 mm ²				3,750	1,385
835510	3x25 mm ²	127	0.727	0.927	3,750	1,385
835467	4x25 mm ²	127	0.727	0.927	5,000	1,655
835477	4x25 mm ²	127	0.727	0.927	5,000	1,655
835499	4G25 mm ²	127	0.727	0.927	5,000	1,655
835520	5G25 mm ²	127	0.727	0.927	6,250	2,010

Current load according to NEN1010:2015, Table 52.B