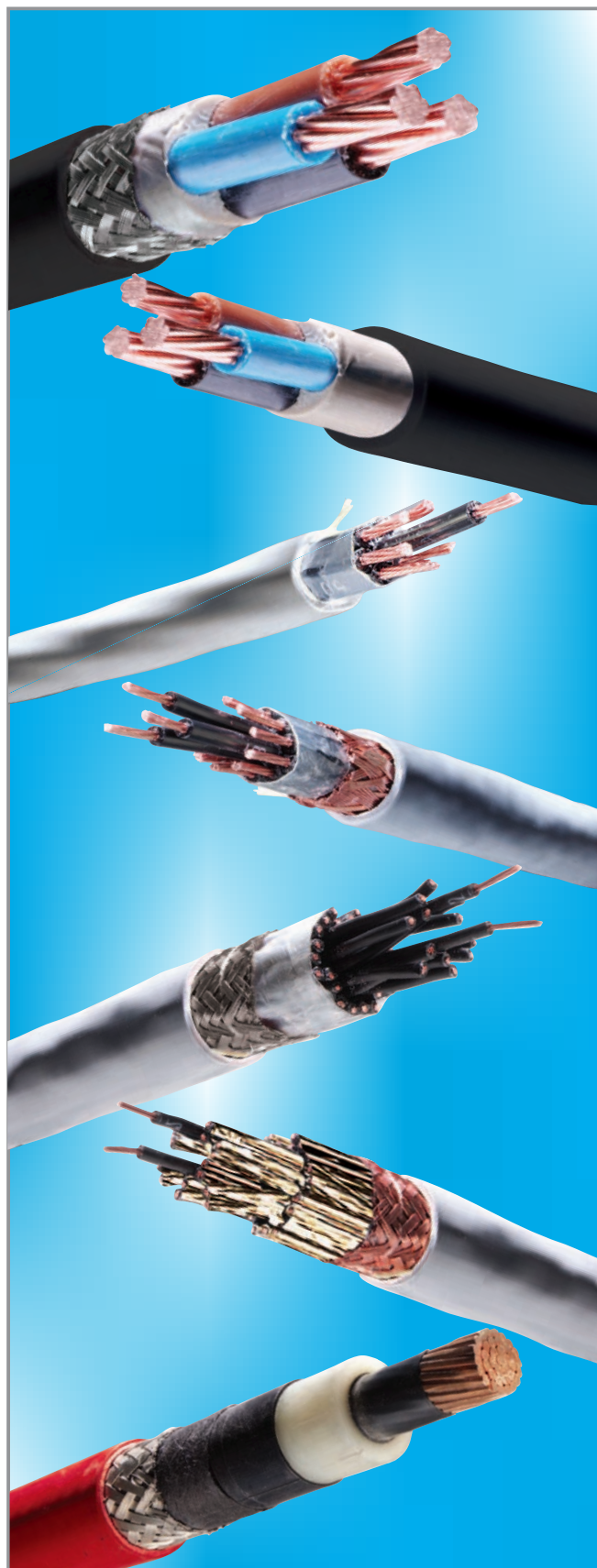
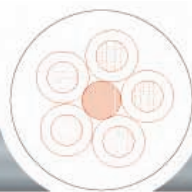


DESCRIPCIÓN

PÁG.

COLOR FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL EN COLORES	OPVC-JB/OB 600 V, 0.6/1 KV	2
SHIELDED FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL EN COLORES, BLINDADO	OPVC-JB/OB-YCY 600 V, 0.6/1 KV	4
FLEXIBLE CONTROL CABLE CABLE FLEXIBLE DE CONTROL, DIAMETRO REDUCIDO	OPVC-JZ/OZ 300/500 V	6
SHIELDED FLEXIBLE CONTROL CABLE CABLE FLEXIBLE DE CONTROL, BLINDADO	OPVC-JZ/OZ-YCY 300/500 V	8
SHIELDED FLEXIBLE CONTROL CABLE CABLE FLEXIBLE DE CONTROL DIAMETRO REDUCIDO, BLINDADO	OPVC-JZ/OZ-CY 300/500 V	10
FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL	OPVC-JZ/OZ 0.6/1KV BLACK 0.6/1 KV	12
SMALL DIAMETER VARIABLE FREQUENCY DRIVE CABLE CABLE FLEXIBLE PARA DRIVES VARADORES DE FRECUENCIA	VFD 600 V	14
SHIELDED FLEXIBLE VFD SYMMETRICAL CABLE CABLE FLEXIBLE VFD SIMETRICO BLINDADO	ZYSL(S)CY-J 0.6/1 KV EMI-3 PLUS ZYSL(S)CYK-J 0.6/1 KV EMI-3 PLUS-0/1 0.6/1 KV	16
FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL	Multinorm H05VV5-F HAR/UL/CSA 600 V	18
SHIELDED FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL, BLINDADO	Multinorm-CY H05VVC4V5-K HAR/UL/CSA 600 V	20
FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL	2-norm (H) 05VV5-F UL/CSA 600 V	22
SHIELDED FLEXIBLE POWER & CONTROL CABLE CABLE FLEXIBLE DE POTENCIA Y CONTROL, BLINDADO	2-norm-CY (H) 05VVC4V5-K UL/CSA 600 V	24
FLEXIBLE CONTROL CABLE HALOGEN-FREE CABLE FLEXIBLE DE CONTROL LIBRE DE HALOGENOS	FLAME-JZ/OZ-H FRNC 300/500 V	26
SHIELDED FLEXIBLE CONTROL CABLE HALOGEN-FREE CABLE FLEXIBLE DE CONTROL LIBRE DE HALOGENOS, BLINDADO	FLAME-JZ/OZ-CH FRNC 300/500 V	28
FLEXIBLE TRAY CABLE CLASE 1 DIVISION 2 CABLE FLEXIBLE DE CONTROL PARA CHAROLAS	TRAY 600 V	30
HIGH FLEXIBLE CONTROL CABLE CABLE SUPER-FLEXIBLE DE CONTROL	XTRA-GUARD 600 V	32
HIGH FLEXIBLE POWER PVC CABLE CABLE SUPER-FLEXIBLE DE POTENCIA PVC	KAWEFLEX® 5112 SK-PVCPVC cUL KAWEFLEX® 5112 SK-PVC-C-PVC cUL 600 V	34
FLEXIBLE FLAT CABLE PVC CABLE PLANO FLEXIBLE, PVC	H05VVH6-F; (H)05VVH6-F 300/500 V	36
FLEXIBLE FLAT CABLE, PVC CABLE PLANO FLEXIBLE, PVC	H05VVH6-F; (H)05VVH6-F 450/750 V	38
FLEXIBLE FLAT CABLE, NEOPRENE CABLE PLANO FLEXIBLE, NEOPRENO	NGFLGÖU; (N)GFLGÖU 300/500 V	40
HOOK-UP WIRE CABLE DE CONEXIONES	LIYvz, H05V-UJ-K, H07V-UJ-K-R 300/500 V	42
		44





Application

power, control and connecting cable in electrical facilities for fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection, no laying in underground.

Special features

- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

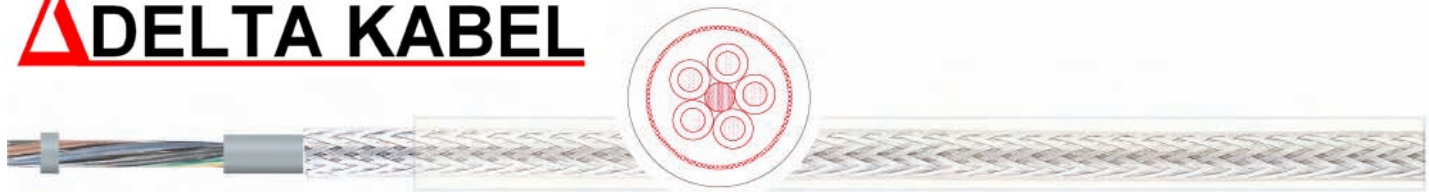
conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	up to 5 cores acc. to DIN VDE 0293-308 coloured cores; from 6 cores TKD colour code with or without gn/ye, look at the the technical guideline.
stranding	stranded in layers
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	up to 16 mm ² Uo/U 300/500 V; from 25 mm ² Uo/U 0,6/1 kV
testing voltage	4.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+ 70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	according to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-0923	2 x 20 (0.5)	4,8	35,0
100-0333	3 G 20 (0.5)	5,2	42,0
100-0354	4 G 20 (0.5)	5,7	54,0
100-0371	5 G 20 (0.5)	6,3	63,0
100-0384	7 G 20 (0.5)	6,8	81,0
100-	12 G 20 (0.5)	9,1	135,0
100-0926	2 X 19 (0.75)	5,2	56,0
100-0334	3 G 19 (0.75)	5,6	67,0
100-0355	4 G 19 (0.75)	6,3	81,0
100-0372	5 G 19 (0.75)	6,8	99,0
100-0385	7 G 19 (0.75)	7,5	109,0
100-	12 G 19 (0.75)	10,0	176,0
100-0930	2 X 18 (1.0)	5,6	64,0
100-0340	3 G 18 (1.0)	6,1	78,0
100-0356	4 G 18 (1.0)	6,6	97,0
100-0374	5 G 18 (1.0)	7,2	105,0
100-0387	7 G 18 (1.0)	8,2	131,0
100-1920	12 G 18 (1.0)	10,5	220,0
100-0931	2 X 16 (1.5)	6,4	87,0
100-0341	3 G 16 (1.5)	6,8	109,0
100-0357	4 G 16 (1.5)	7,3	133,0
100-0376	5 G 16 (1.5)	8,3	163,0
100-0388	7 G 16 (1.5)	9,1	166,0
100-1723	12 G 16 (1.5)	12,2	307,0
100-0934	2 X 14 (2.5)	7,7	128,0
100-0347	3 G 14 (2.5)	8,3	162,0
100-0362	4 G 14 (2.5)	9,1	203,0
100-0380	5 G 14 (2.5)	10,2	242,0
100-1737	7 G 14 (2.5)	11,3	321,0
100-	12 G 14 (2.5)	15,1	504,0
100-0935	2 X 12 (4)	9,4	187,0
100-0351	3 G 12 (4)	10,1	214,0
100-0365	4 G 12 (4)	11,0	297,0
100-0382	5 G 12 (4)	12,3	355,0
100-	7 G 12 (4)	13,7	471,0
100-	12 G 12 (4)	18,0	790,0
100-0353	3 G 10 (6)	11,9	318,0
100-0367	4 G 10 (6)	12,8	394,0
100-0383	5 G 10 (6)	14,4	489,0
100-	7 G 10 (6)	16,0	625,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	3 G 8 (10)	14,7	516,0
100-0359	4 G 8 (10)	16,5	650,0
100-0377	5 G 8 (10)	18,5	792,0
100-0389	7 G 8 (10)	20,1	1.058,0
100-1685	3 G 6 (16)	17,7	911,0
100-0361	4 G 6 (16)	20,3	1.087,0
100-0378	5 G 6 (16)	22,6	1.370,0
100-	7 G 6 (16)	24,7	1.779,0
100-	3 G 4 (25)	23,5	1.388,0
100-0363	4 G 4 (25)	25,9	1.582,0
100-1848	5 G 4 (25)	28,4	1.998,0
100-	7 G 4 (25)	32,0	2.830,0
100-	3 G 2 (35)	25,8	1.766,0
100-0364	4 G 2 (35)	28,8	2.106,0
100-0381	5 G 2 (35)	35,5	2.635,0
100-0352	3 G 1 (50)	30,4	2.556,0
100-0366	4 G 1 (50)	34,7	2.943,0
100-1817	5 G 1 (50)	39,0	3.936,0
100-	3 G 2/0 (70)	36,0	3.182,0
100-0369	4 G 2/0 (70)	40,2	4.092,0
100-1803	5 G 2/0 (70)	45,0	4.800,0
100-	3 G 3/0 (95)	42,1	4.675,0
100-0370	4 G 3/0 (95)	46,7	5.538,0
100-1801	5 G 3/0 (95)	51,0	5.600,0
100-	3 G 4/0 (120)	47,5	5.626,0
100-0360	4 G 4/0 (120)	52,9	6.994,0
100-	4 G 300 (150)	60,1	6.800,0
100-	4 G 350 (185)	63,1	8.300,0
100-	4 G 500 (240)	77,6	10.550,0

DELTA KABEL



Application

power, control and connecting cable in electrical facilities for lossless data and signal transmission, fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection, no laying underground.

Special features

- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- additional mechanical protection by inner sheath
- recommended for EMC-applications

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	up to 5 cores acc. to DIN VDE 0293-308 coloured cores, from 6 cores TKD colour code with or without gn/ye, look at the technical guideline.
stranding	stranded in layers
inner sheath material	PVC
overall shield	copper braid tinned, coverage approx. 85 %
outer sheath	PVC
sheath colour	transparent
rated voltage	U ₀ /U: up to 16 mm ² 300/500 V, from 25 mm ² 0,6/1 kV
testing voltage	4 kV
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see technical Guidelines
min. bending radius fixed	6 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-40 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	acc. to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-0982	2 x 20 (0.5)	7,0	75,0
100-0395	3 G 20 (0.5)	7,3	83,0
100-0403	4 G 20 (0.5)	7,9	99,0
100-0412	5 G 20 (0.5)	8,4	112,0
100-	7 G 20 (0.5)	9,1	132,0
100-	12 G 20 (0.5)	11,5	230,0
100-0985	2 X 19 (0.75)	7,5	86,0
100-0396	3 G 19 (0.75)	7,9	100,0
100-0404	4 G 19 (0.75)	8,4	115,0
100-0413	5 G 19 (0.75)	9,1	130,0
100-	7 G 19 (0.75)	9,7	161,0
100-	12 G 19 (0.75)	12,7	280,0
100-0987	2 X 18 (1.0)	7,9	98,0
100-0397	3 G 18 (1.0)	8,2	111,0
100-0405	4 G 18 (1.0)	8,9	130,0
100-	5 G 18 (1.0)	9,7	153,0
100-	7 G 18 (1.0)	10,4	185,0
100-	12 G 18 (1.0)	13,6	350,0
100-0988	2 X 16 (1.5)	8,7	132,0
100-0398	3 G 16 (1.5)	9,0	170,0
100-0406	4 G 16 (1.5)	9,8	204,0
100-0414	5 G 16 (1.5)	10,6	246,0
100-	7 G 16 (1.5)	11,5	320,0
100-	12 G 16 (1.5)	15,2	450,0
100-0989	2 X 14 (2.5)	10,1	180,0
100-0401	3 G 14 (2.5)	10,5	211,0
100-0407	4 G 14 (2.5)	11,5	310,0
100-0420	5 G 14 (2.5)	12,8	326,0
100-	7 G 14 (2.5)	14,0	444,0
100-	12 G 14 (2.5)	18,2	690,0
100-1861	4 G 12 (4)	13,7	403,0
100-0421	5 G 12 (4)	15,4	478,0
100-	7 G 12 (4)	16,6	620,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-0409	4 G 10 (6)	16,1	524,0
100-0422	5 G 10 (6)	17,3	624,0
100-	7 G 10 (6)	18,8	907,0
100-1862	4 G 8 (10)	19,4	843,0
100-0417	5 G 8 (10)	21,8	1.004,0
100-1879	4 G 6 (16)	22,8	1.395,0
100-0418	5 G 6 (16)	26,1	1.812,0
100-1880	4 G 4 (25)	29,4	1.289,0
100-1687	5 G 4 (25)	32,6	1.446,0
100-1768	4 G 2 (35)	32,4	1.693,0
100-1776	5 G 2 (35)	36,0	1.975,0
100-0408	4 G 1 (50)	38,8	3.362,0
100-0410	4 G 2/0 (70)	43,7	3.719,0
100-0411	4 G 3/0 (95)	50,4	5.849,0
100-1604	4 G 4/0 (120)	56,8	7.509,0
100-	4 G 300 (150)	61,5	7.800,0
100-	4 G 350 (185)	64,5	9.866,0



Application

power, control and connecting cable in electrical facilities for fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection, no laying underground.

Special features

- 4kV testing voltage
- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with or without gn/ye
stranding	stranded in layers
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	U ₀ /U 300/500 V
testing voltage	4.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +80 °C
operat. temp. moved min/max	-5 °C / +70 °C
temp. at conductor	+70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	according to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-1034	2 x 20 (0.5)	4,9	35,0
100-0528	3 G 20 (0.5)	5,2	42,0
100-0554	4 G 20 (0.5)	5,8	54,0
100-0580	5 G 20 (0.5)	6,3	63,0
100-0613	7 G 20 (0.5)	6,8	81,0
100-0449	10 G 20 (0.5)	8,8	116,0
100-0455	12 G 20 (0.5)	9,1	135,0
100-0465	14 G 20 (0.5)	10,2	153,0
100-0479	18 G 20 (0.5)	11,0	188,0
100-0496	21 G 20 (0.5)	12,5	221,0
100-0505	25 G 20 (0.5)	13,0	261,0
100-0519	34 G 20 (0.5)	15,0	256,0
100-1033	2 X 19 (0.75)	5,2	45,0
100-0529	3 G 19 (0.75)	5,6	55,0
100-0555	4 G 19 (0.75)	6,3	66,0
100-0581	5 G 19 (0.75)	6,8	79,0
100-0614	7 G 19 (0.75)	7,4	101,0
100-0633	8 G 19 (0.75)	8,9	130,0
100-0450	10 G 19 (0.75)	9,6	150,0
100-0456	12 G 19 (0.75)	10,1	171,0
100-0457	16 G 19 (0.75)	11,5	220,0
100-0480	18 G 19 (0.75)	11,9	244,0
100-0489	19 G 19 (0.75)	11,9	270,0
100-0497	21 G 19 (0.75)	12,9	286,0
100-0506	25 G 19 (0.75)	14,1	337,0
100-0520	34 G 19 (0.75)	16,2	448,0
100-0548	41 G 19 (0.75)	17,9	538,0
100-0576	50 G 19 (0.75)	19,4	648,0
100-0600	61 G 19 (0.75)	20,9	779,0
100-1035	2 X 18 (1.0)	5,6	53,0
100-0532	3 G 18 (1.0)	6,1	65,0
100-0557	4 G 18 (1.0)	6,6	79,0
100-0582	5 G 18 (1.0)	7,2	94,0
100-0611	6 G 18 (1.0)	8,2	113,0
100-0617	7 G 18 (1.0)	8,2	126,0
100-0635	8 G 18 (1.0)	9,2	149,0
100-0452	10 G 18 (1.0)	10,4	180,0
100-0458	12 G 18 (1.0)	10,5	205,0
100-0467	14 G 18 (1.0)	11,4	238,0
100-0476	16 G 18 (1.0)	12,0	266,0
100-0486	18 G 18 (1.0)	13,0	294,0
100-0490	19 G 18 (1.0)	13,0	330,0
100-0493	20 G 18 (1.0)	13,7	330,0
100-0508	25 G 18 (1.0)	15,0	408,0
100-0514	27 G 18 (1.0)	15,4	424,0
100-0521	34 G 18 (1.0)	17,4	551,0
100-0549	41 G 18 (1.0)	19,2	661,0
100-0551	42 G 18 (1.0)	19,4	776,0
100-0577	50 G 18 (1.0)	21,0	797,0
100-0601	61 G 18 (1.0)	22,5	958,0
100-0606	65 G 18 (1.0)	23,5	1.033,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-1037	2 x 16 (1.5)	6,4	68,0
100-0534	3 G 16 (1.5)	6,8	84,0
100-0558	4 G 16 (1.5)	7,3	104,0
100-0584	5 G 16 (1.5)	8,3	128,0
100-0618	7 G 16 (1.5)	9,1	166,0
100-0636	8 G 16 (1.5)	10,3	197,0
100-0643	9 G 16 (1.5)	11,2	221,0
100-0453	10 G 16 (1.5)	11,5	243,0
100-0460	12 G 16 (1.5)	12,2	279,0
100-0468	14 G 16 (1.5)	12,7	323,0
100-0477	16 G 16 (1.5)	13,7	361,0
100-0485	18 G 16 (1.5)	14,5	407,0
100-0499	21 G 16 (1.5)	16,0	469,0
100-0509	25 G 16 (1.5)	17,0	560,0
100-0522	34 G 16 (1.5)	19,6	746,0
100-0552	42 G 16 (1.5)	21,7	895,0
100-0578	50 G 16 (1.5)	23,6	1.089,0
100-0602	61 G 16 (1.5)	25,7	1.309,0
100-1047	2 X 14 (2.5)	7,7	101,0
100-0542	3 G 14 (2.5)	8,3	132,0
100-0564	4 G 14 (2.5)	9,1	163,0
100-0593	5 G 14 (2.5)	10,2	20,0
100-0626	7 G 14 (2.5)	11,3	267,0
100-0639	8 G 14 (2.5)	12,9	315,0
100-1564	10 G 14 (2.5)	14,6	478,0
100-0463	12 G 14 (2.5)	15,1	445,0
100-0487	18 G 14 (2.5)	18,2	648,0
100-0511	25 G 14 (2.5)	21,2	890,0
100-1544	3 G 12 (4)	10,1	201,0
100-0569	4 G 12 (4)	11,0	249,0
100-0597	5 G 12 (4)	12,3	305,0
100-0629	7 G 12 (4)	13,7	407,0
100-1762	11 G 12 (4)	17,4	634,0
100-2730	12 G 12 (4)	18,0	660,0
100-0545	3 G 10 (6)	11,9	289,0
100-0571	4 G 10 (6)	12,8	365,0
100-0598	5 G 10 (6)	14,4	447,0
100-0630	7 G 10 (6)	16,0	600,0
100-0539	3 G 8 (10)	14,7	466,0
100-0561	4 G 8 (10)	16,5	590,0
100-0590	5 G 8 (10)	18,5	722,0
100-0622	7 G 8 (10)	20,1	968,0
100-0563	4 G 6 (16)	20,3	1.087,0
100-0591	5 G 6 (16)	22,8	1.370,0
100-0623	7 G 6 (16)	24,7	1.779,0
100-0566	4 G 4 (25)	25,0	1.582,0
100-0595	5 G 4 (25)	27,8	1.998,0

DELTA KABEL



Application

power, control and connecting cable in electrical facilities for lossless data and signal transmission, fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection, no laying underground.

Special features

- 4 kV testing voltage
- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- additional mechanical protection by inner sheath
- recommended for EMC-applications

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with or without gn/ye
stranding	stranded in layers
inner sheath material	PVC
overall shield	copper braid tinned, coverage approx. 85 %
outer sheath	PVC
sheath colour	transparent
rated voltage	U ₀ /U: 300/500 V
testing voltage	4 kV
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	6 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-40 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+ 70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	acc.to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-1093	2 x 20 (0.5)	7,0	75,0
100-0681	3 G 20 (0.5)	7,3	83,0
100-0691	4 G 20 (0.5)	7,9	99,0
100-0711	5 G 20 (0.5)	8,4	112,0
100-0720	7 G 20 (0.5)	9,1	132,0
100-0659	12 G 20 (0.5)	11,5	202,0
100-0655	18 G 20 (0.5)	13,6	289,0
100-0671	25 G 20 (0.5)	15,8	378,0
100-0676	30 G 20 (0.5)	16,4	429,0
100-0687	40 G 20 (0.5)	18,6	542,0
100-1092	2 X 19 (0.75)	7,5	86,0
100-0682	3 G 19 (0.75)	7,9	100,0
100-0692	4 G 19 (0.75)	8,4	115,0
100-0712	5 G 19 (0.75)	9,1	130,0
100-0722	7 G 19 (0.75)	9,7	161,0
100-0660	12 G 19 (0.75)	12,7	247,0
100-0666	18 G 19 (0.75)	14,8	356,0
100-0672	25 G 19 (0.75)	17,3	465,0
100-0677	34 G 19 (0.75)	19,3	601,0
100-0688	41 G 19 (0.75)	21,0	728,0
100-0707	50 G 19 (0.75)	23,0	950,0
100-1096	2 X 18 (1.0)	7,9	98,0
100-0683	3 G 18 (1.0)	8,2	111,0
100-0693	4 G 18 (1.0)	8,9	130,0
100-0713	5 G 18 (1.0)	9,7	153,0
100-0723	7 G 18 (1.0)	10,4	185,0
100-0661	12 G 18 (1.0)	13,6	307,0
100-1888	16 G 18 (1.0)	14,9	390,0
100-0667	18 G 18 (1.0)	15,8	418,0
100-0673	25 G 18 (1.0)	17,9	544,0
100-0678	34 G 18 (1.0)	20,7	738,0
100-0689	41 G 18 (1.0)	22,4	864,0
100-0709	50 G 18 (1.0)	23,8	1.011,0
100-1095	2 X 16 (1.5)	8,7	117,0
100-0684	3 G 16 (1.5)	9,0	136,0
100-0694	4 G 16 (1.5)	9,8	163,0
100-0714	5 G 16 (1.5)	10,6	188,0
100-0724	7 G 16 (1.5)	11,5	237,0
100-0662	12 G 16 (1.5)	15,2	393,0
100-0668	18 G 16 (1.5)	17,5	538,0
100-0674	25 G 16 (1.5)	20,5	745,0
100-0679	34 G 16 (1.5)	23,3	964,0
100-2324	41 G 16 (1.5)	25,2	1.123,0
100-0710	50 G 16 (1.5)	27,6	1.372,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-1196	2 x 14 (2.5)	10,1	202,0
100-0685	3 G 14 (2.5)	10,5	192,0
100-0699	4 G 14 (2.5)	11,5	233,0
100-0717	5 G 14 (2.5)	12,8	283,0
100-0726	7 G 14 (2.5)	14,0	371,0
100-0663	12 G 14 (2.5)	18,2	585,0
100-0669	18 G 14 (2.5)	22,4	958,0
100-0675	25 G 14 (2.5)	25,1	1.320,0
100-2958	2 X 12 (4)	11,6	247,0
100-0702	4 G 12 (4)	13,7	347,0
100-0718	5 G 12 (4)	15,4	413,0
100-0727	7 G 12 (4)	16,6	620,0
100-	2 X 10 (6)	13,9	353,0
100-0705	4 G 10 (6)	16,1	485,0
100-0719	5 G 10 (6)	17,3	702,0
100-0728	7 G 10 (6)	18,8	950,0
100-	2 X 8 (10)	16,7	492,0
100-0695	4 G 8 (10)	19,4	735,0
100-0715	5 G 8 (10)	21,8	1.105,0
100-	7 G 14 (2.5)	19,0	698,0
100-0697	8 G 14 (2.5)	22,6	1.395,0
100-0716	10 G 14 (2.5)	25,2	1.480,0
100-0700	18 G 14 (2.5)	34,0	1.790,0
100-0701	25 G 14 (2.5)	35,6	2.260,0




Application

power, control and connecting cable in electrical facilities for lossless data and signal transmission, fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection, no laying underground.

Special features

- 4 kV testing voltage
- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- space-saving alternative to ÖPVC-JZ/ÖZ-YCY
- recommended for EMC-applications

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

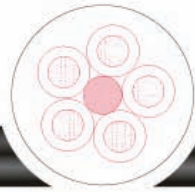
Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with or without gn/ye
stranding	stranded in layers
overall shield	copper braid tinned; coverage approx. 85 %
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	U ₀ /U: 300/500 V
testing voltage	core/core: 4 kV core/shield: 2 kV
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
capacity	core/core ca. 120 nF/km; core/shield ca. 155 nF/km
inductivity	ca. 0,67 mH/km
min. bending radius fixed	6 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+ 70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	acc. to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
50-0786	2 x 20 (0.5)	5,8	45,0
50-0719	3 G 20 (0.5)	6,1	59,0
50-0725	4 G 20 (0.5)	6,5	83,0
50-0732	5 G 20 (0.5)	7,0	96,0
50-0746	7 G 20 (0.5)	7,5	136,0
50-0693	12 G 20 (0.5)	9,9	200,0
50-0697	18 G 20 (0.5)	11,5	275,0
50-0710	25 G 20 (0.5)	13,4	350,0
50-0782	2 X 19 (0.75)	6,2	56,0
50-0721	3 G 19 (0.75)	6,5	70,0
50-0726	4 G 19 (0.75)	7,0	95,0
50-0733	5 G 19 (0.75)	7,7	130,0
50-0740	7 G 19 (0.75)	8,3	168,0
50-0695	12 G 19 (0.75)	10,9	232,0
50-0704	18 G 19 (0.75)	12,7	315,0
50-0712	25 G 19 (0.75)	14,8	435,0
50-0789	2 X 18 (1.0)	6,5	84,0
50-0722	3 G 18 (1.0)	6,5	110,0
50-0727	4 G 18 (1.0)	7,3	130,0
50-0734	5 G 18 (1.0)	8,1	156,0
50-0749	7 G 18 (1.0)	8,8	192,0
50-0696	12 G 18 (1.0)	11,5	285,0
50-0705	18 G 18 (1.0)	13,9	395,0
50-0713	25 G 18 (1.0)	15,9	656,0
50-0790	2 X 16 (1.5)	7,1	97,0
50-0715	3 G 16 (1.5)	7,5	125,0
50-0720	4 G 16 (1.5)	8,2	165,0
50-0735	5 G 16 (1.5)	8,9	193,0
50-0743	7 G 16 (1.5)	9,9	245,0
50-0698	12 G 16 (1.5)	13,0	365,0
50-0706	18 G 16 (1.5)	15,6	553,0
50-0714	25 G 16 (1.5)	17,9	734,0
50-	34 G 16 (1.5)	20,8	944,0
50-0723	3 G 14 (2.5)	8,9	188,0
50-0730	4 G 14 (2.5)	9,9	236,0
50-0737	5 G 14 (2.5)	11,0	270,0
50-0750	7 G 14 (2.5)	11,9	340,0
50-0669	12 G 14 (2.5)	16,0	589,0
50-6721	18 G 14 (2.5)	19,0	978,0
50-	25 G 14 (2.5)	22,2	1.358,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
50-0724	4 G 12 (4)	11,6	305,0
50-	7 G 12 (4)	14,4	500,0
50-0731	4 G 10 (6)	14,2	440,0
50-	7 G 10 (6)	17,0	672,0
50-0728	4 G 8 (10)	17,2	710,0
50-	7 G 8 (10)	21,4	1.305,0
50-6722	4 G 6 (16)	20,2	1.050,0
50-	7 G 6 (16)	24,8	1.813,0
50-	4 G 4 (25)	25,1	1.570,0
50-	4 G 2 (35)	30,4	2.070,0



Application

power, control and connecting cable in electrical facilities for lossless data and signal transmission, fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use but no laying underground.

Special features

- operation voltage 0.6/1 kV
- 4kV testing voltage
- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- UV-proofed PVC outer sheath

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with or without gn/ye
stranding	stranded in layers
outer sheath	PVC
sheath colour	black, RAL 9005
rated voltage	U ₀ /U 0,6/1 kV
testing voltage	4.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+ 70 °C in operation; +160 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	according to DIN VDE 0250, 0276 part 603 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-3183	2 x 20 (0.5)	7,0	75,0
100-3428	3 G 20 (0.5)	7,3	83,0
100-3429	4 G 20 (0.5)	7,9	99,0
100-3430	5 G 20 (0.5)	8,4	112,0
100-3187	7 G 20 (0.5)	9,1	132,0
100-3432	12 G 20 (0.5)	11,5	202,0
100-3433	18 G 20 (0.5)	13,6	289,0
100-3434	25 G 20 (0.5)	15,8	378,0
100-3435	2 X 19 (0.75)	18,6	542,0
100-3000	3 G 19 (0.75)	7,5	86,0
100-3055	4 G 19 (0.75)	7,9	100,0
100-3083	5 G 19 (0.75)	8,4	115,0
100-3056	7 G 19 (0.75)	9,1	130,0
100-3057	12 G 19 (0.75)	9,7	161,0
100-3058	18 G 19 (0.75)	12,7	247,0
100-3062	25 G 19 (0.75)	14,8	356,0
100-1046	2 X 18 (1.0)	19,3	601,0
100-3002	3 G 18 (1.0)	21,0	728,0
100-2408	4 G 18 (1.0)	23,0	950,0
100-1972	5 G 18 (1.0)	23,0	950,0
100-2993	7 G 18 (1.0)	7,9	98,0
100-1974	12 G 18 (1.0)	8,2	111,0
100-1975	18 G 18 (1.0)	8,9	130,0
100-1976	25 G 18 (1.0)	9,7	153,0
100-3446	2 X 16 (1.5)	13,6	307,0
100-0537	3 G 16 (1.5)	14,9	390,0
100-0560	4 G 16 (1.5)	15,8	418,0
100-0588	5 G 16 (1.5)	17,9	544,0
100-0620	7 G 16 (1.5)	20,7	738,0
100-0462	12 G 16 (1.5)	22,4	864,0
100-2799	18 G 16 (1.5)	23,8	1.011,0
100-1977	25 G 16 (1.5)	8,7	117,0
100-3447	2 X 14 (2.5)	9,0	136,0
100-0543	3 G 14 (2.5)	9,8	163,0
100-0565	4 G 14 (2.5)	10,6	188,0
100-0594	5 G 14 (2.5)	11,5	237,0
100-0627	7 G 14 (2.5)	15,2	393,0
100-1857	12 G 14 (2.5)	17,5	538,0
100-3073	18 G 14 (2.5)	20,5	745,0
100-3448	25 G 14 (2.5)	23,3	964,0
100-3449	2 X 12 (4)	10,6	188,0
100-3450	3 G 12 (4)	11,5	237,0
100-3063	4 G 12 (4)	15,2	393,0
100-3452	5 G 12 (4)	17,5	538,0
100-3453	7 G 12 (4)	20,5	745,0
100-3454	12 G 12 (4)	23,3	964,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-3455	3 G 10 (6)	14,1	375,0
100-2798	4 G 10 (6)	15,5	433,0
100-3456	5 G 10 (6)	17,2	645,0
100-3141	7 G 10 (6)	18,6	855,0
100-2796	4 G 8 (10)	18,5	790,0
100-3124	5 G 8 (10)	21,1	960,0
100-3459	7 G 8 (10)	23,1	1.314,0
100-3088	4 G 6 (16)	22,5	1.109,0
100-3143	5 G 6 (16)	24,0	1.616,0
100-3465	7 G 6 (16)	27,0	1.798,0
100-3139	4 G 4 (25)	27,5	1.623,0
100-1589	5 G 4 (25)	29,5	2.075,0
100-3469	7 G 4 (25)	31,9	2.950,0
100-3470	4 G 2 (35)	30,0	2.415,0
100-3471	5 G 2 (35)	33,0	2.890,0
100-3125	4 G 1 (50)	36,0	3.390,0
100-3126	4 G 2/0 (70)	41,0	4.320,0
100-3140	4 G 3/0 (95)	47,0	6.000,0
100-3127	4 G 4/0 (120)	55,0	7.500,0




Application

Power, control and connecting cable for drive systems with frequency converter technology, for fixed laying and casually movement without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Not to use outdoor without UV protected outer sheath and no laying underground.

Special features

- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- low operating capacity, low coupling resistance
- recommended for EMC-applications
- black version with UV-resistant outer sheath

Remarks

- conform to RoHS
- The on the right side current carrying capacities correspond to an ambient temperature of 30 degrees. For higher temperatures: Please look at the techn. guidelines.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PE
core identification	acc. to DIN VDE 0293-308 coloured cores with gn/ye
stranding	stranded in layers
overall shield	copper braid tinned over aluminium foil-clad
outer sheath	PVC
sheath colour	2YSL(St)CY-J EMV-3 PLUS: transparent 2YSL(St)CYK-J EMV-3 PLUS-UV: black
rated voltage	U ₀ /U: 0,6/1 kV
testing voltage	4 kV
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	look at the table on the right side
min. bending radius fixed	up to 12 mm Ø 5 x d, up to 20 mm Ø 7,5 x d, > 20 mm Ø: 10 x d
min. bending radius moved	up to 12 mm Ø 10 x d, up to 20 mm Ø 15 x d, > 20 mm Ø 20 x d
operat. temp. fixed min/max	-40 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+ 70 °C in operation; +160 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	acc. to DIN VDE 0250 / conform to 73/23/EWG-Guideline CE



PART NO.	Dimension n x AWG (mm ²)		Outer Ø mm	Weight kg/km	Carrying Capacity	Capacitance Cond./cond.	Capacitance Cond./shield
100-3369	3 X 16 (1.5)+3 G 24 (0.25)	TRANSPARENT	10,6	212,0	18	70	110
100-3431	3 X 16 (1.5)+3 G 24 (0.25)	BLACK					
100-1928	3 X 14 (2.5)+3 G 20 (0.5)	TRANSPARENT	12,3	276,0	26	80	130
100-2390	3 x 14 (2.5)+3 G 20 (0.5)	BLACK					
100-3371	3 X 12 (4)+3 G 19 (0.75)	TRANSPARENT	14,5	446,0	34	90	15
100-3138	3 X 12 (4)+3 G 19 (0.75)	BLACK					
100-3373	3 X 10 (6)+3 G 18 (1.0)	TRANSPARENT	16,4	582,0	44	110	170
100-2719	3 X 10 (6)+3 G 18 (1.0)	BLACK					
100-1929	3 X 8 (10)+3 G 16 (1.5)	TRANSPARENT	19,2	794,0	61	120	190
100-2660	3 X 8 (10)+3 G 16 (1.5)	BLACK					
100-2892	3 X 6 (16)+3 G 14 (2.5)	TRANSPARENT	22,3	1.188,0	82	130	220
100-2890	3 X 6 (16)+3 G 14 (2.5)	BLACK					
100-1858	3 X 4 (25)+3 G 12 (4)	TRANSPARENT	27,3	1.713,0	108	145	230
100-2720	3 X 4 (25)+3 G 12 (4)	BLACK					
100-2856	3 X 2 (35)+3 G 10 (6)	TRANSPARENT	29,4	2.402,0	135	150	260
100-2721	3 X 2 (35)+3 G 10 (6)	BLACK					
100-1859	3 X 1/0 (50)+3 G 8 (10)	TRANSPARENT	35,0	2.718,0	168	175	290
100-3001	3 X 1/0 (50)+3 G 8 (10)	BLACK					
100-2891	3 X 2/0 (70)+3 G 8 (10)	TRANSPARENT	40,6	3.636,0	207	180	300
100-2661	3 X 2/0 (70)+3 G 8 (10)	BLACK					
100-3049	3 X 3/0 (95)+3 G 6 (16)	TRANSPARENT	44,0	4.978,0	250	195	320
100-2662	3 X 3/0 (95)+3 G 6 (16)	BLACK					
100-3376	3 X 4/0 (120)+3 G 6 (16)	TRANSPARENT	49,5	6.175,0	292	215	340
100-2722	3 X 4/0 (120)+3 G 6 (16)	BLACK					
100-3390	3 X 300 (150)+3 G 4 (25)	TRANSPARENT	55,2	6.579,0	335	230	360
100-2380	3 X 300 (150)+3 G 4 (25)	BLACK					
100-2841	3 X 350 (185)+3 G 2 (35)	TRANSPARENT	58,2	8.518,0	382	240	380
100-2999	3 X 350 (185)+3 G 2 (35)	BLACK					
100-3391	3 X 500 (240)+3 G 1 (50)	TRANSPARENT	66,0	11.611,0	453	250	410
100-3427	3 X 500 (240)+3 G 1 (50)	BLACK					

VARIABLE FREQUENCY DRIVE CABLE VFD 2YSL(St)CY-J 0,6/1 kV EMC & 2YSL(St)CYK-J 0,6/1kV EMC - UV

DELTA KABEL



Anwendung

als Energie-, Steuer-, Anschluss- und Verbindungsleitung für Antriebssysteme mit Frequenzumrichtertechnologie, für feste Verlegung und flexible Anwendungen bei gelegentlich freier Bewegung ohne Zugbeanspruchung und ohne zwangsweise Führung. Geeignet für Verlegung in trockenen, feuchten und nassen Räumen, jedoch nicht im Freien ohne UV-Schutz und nicht im Erdreich. UV-Type (schwarze Mantelfarbe) auch für Verlegung im Freien geeignet.

Besonderheiten

- weitgehend beständig gegen Säuren, Laugen und bestimmte Öle. LBS-frei/silikonfrei (bei Produktion)
- geringe Betriebskapazität, geringer Kopplungswiderstand
- UV-strahlenbeständiger PVC Mantel bei schwarzer Ausführung
- empfohlen für EMV gerechte Anwendung

Hinweise

- RoHS-konform.
- Die auf der rechten Seite aufgeführte max.zulässige Strombelastbarkeit bezieht sich auf eine Umgebungstemperatur von 30 Grad. Bei höheren Temperaturen bitte Korrekturfaktoren im techn. Anhang beachten.
- Sonderausführungen, andere Abmessungen, Querschnitte, Ader- und Mantelfarben fertigen wir auf Anfrage.

Aufbau & Technische Daten

Leiter Werkstoff	Cu-Litze blank
Leiterklasse	nach DIN VDE 0295 Klasse 5 bzw. IEC 228 class 5
Aderisolationwerkstoff	PE
Aderkennung	nach DIN VDE 0293-308 farbige Adern mit gn/ge
Verseilung	Adern in Lagen verseilt
Gesamtschirm	Cu-Geflecht verzinkt über alukaschierter Folie
Außenmantelwerkstoff	PVC
Mantelfarbe	2YSL(St)CY-J 0,6/1 kV EMV - transparent 2YSL(St)CYK-J 0,6/1 kV EMV - UV - schwarz
Nennspannung	U ₀ /U 0,6/1 kV
Prüfspannung	4.000 V
Leiterwiderstand	nach DIN VDE 0295 Klasse 5 bzw. IEC 228 class 5
Isolationwiderstand	min. 20 MΩ x km
Strombelastbarkeit	siehe Tabelle rechte Seite
kleinster Biegeradius fest	bis 12 mm Ø: 5 x d; bis 20 mm Ø: 7,5 x d; > 20 mm Ø: 10 x d
kleinster Biegeradius bewegt mm	bis 12 mm Ø: 10 x d; bis 20 mm Ø: 15 x d; > 20 mm Ø: 20 x d
Betriebstemp. fest min/max	-40 °C / +80 °C
Betriebstemp. bew. min/max	- 5 °C / +70 °C
Temperatur am Leiter max.	+ 70 °C im Betrieb; +160 °C im Kurzschlussfall
Brandverhalten	selbstverlöschend und flammwidrig nach IEC 332-1
Standard	in Anlehnung an DIN VDE 0250 / konform zur 73/23/EWG-Richtlinie ("Niederspannungsrichtlinie") CE

Application

power, control and connecting cable for drive systems with frequency converter technology, for fixed laying and casual movement without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection (black colour), no laying underground.

Special features

- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- low operating capacity, low coupling resistance
- UV-proofed PVC outer sheath (black sheath)
- recommended for EMC-applications

Remarks

- conform to RoHS
- The on the right side listed current carrying capacities correspond to an ambient temperature of 30 degrees. For higher temperatures: Please look at the technical guidelines.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PE
core identification	acc. to DIN VDE 0293-308 coloured cores with gn/ye
stranding	stranded in layers
overall shield	copper braid tinned over aluminium foil-clad
outer sheath	PVC
sheath colour	2YSL(St)CY-J 0,6/1 kV EMV - transparent 2YSL(St)CYK-J 0,6/1 kV EMV - UV - black
rated voltage	U ₀ /U 0,6/1 kV
testing voltage	4.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	look at the table on the right side
min. bending radius fixed	up to 12 mm Ø: 5 x d; up to 20 mm Ø: 7,5 x d; > 20 mm Ø: 10 x d
min. bending radius moved	up to 12 mm Ø: 10 x d; up to 20 mm Ø: 15 x d; > 20 mm Ø: 20 x d
operat. temp. fixed min/max	-40 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
temp. at conductor	+ 70 °C in operation; +160 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1
standard	according to DIN VDE 0250 / conform to 73/23/EWG-Guideline CE.

SHIELDED FLEXIBLE VFD SLIM CABLE

2YSL(St)CY-J 0.6/1 kV EMC

2YSL(St)CY-J 0.6/1 kV EMC - UV

CABLE FLEXIBLE VFD DIAMETRO REDUCIDO, BLINDADO

0.6/1 KV



PART NO.	Abmessung Dimension n x AWG (mm ²)		Außen-Ø outer Ø mm	Gewicht weight kg/km	Current carrying capacity	Operating capacitance cond./cond.	Operating capacitance cond./shield
100-0390	4 G 16 (1.5)	TRANSPARENT	10.6	212.0	18	70	110
100-2327	4 G 16 (1.5)	BLACK					
100-0391	4 G 14 (2.5)	TRANSPARENT	12.3	276.0	26	80	130
100-2328	4 G 14 (2.5)	BLACK					
100-0392	4 G 12 (4.0)	TRANSPARENT	14.5	446.0	34	90	150
100-2331	4 G 12 (4.0)	BLACK					
100-0393	4 G 10 (6.0)	TRANSPARENT	16.4	582.0	44	110	170
100-2744	4 G 10 (6.0)	BLACK					
100-0394	4 G 8 (10.0)	TRANSPARENT	20.1	794.0	61	120	190
100-2329	4 G 8 (10.0)	BLACK					
100-0648	4 G 6 (16.0)	TRANSPARENT	23.4	188.0	82	130	220
100-2337	4 G 6 (16.0)	BLACK					
100-0649	4 G 4 (25.0)	TRANSPARENT	27.0	1713.0	108	145	230
100-2323	4 G 4 (25.0)	BLACK					
100-0650	4 G 2 (35.0)	TRANSPARENT	30.7	2402.0	135	150	260
100-2322	4 G 2 (35.0)	BLACK					
100-0651	4 G 1/0 (50.0)	TRANSPARENT	36.1	2718.0	168	175	290
100-2365	4 G 1/0 (50.0)	BLACK					
100-0500	4 G 2/0 (70.0)	TRANSPARENT	42.3	3636.0	207	180	300
100-2745	4 G 2/0 (70.0)	BLACK					
100-0501	4 G 3/0 (95.0)	TRANSPARENT	47.7	4978.0	250	195	320
100-2387	4 G 3/0 (95.0)	BLACK					
100-2746	4 G 4/0 (120.0)	BLACK	51.9	6175.0	292	215	340
100-2330	4 G 300 (150.0)	BLACK	57.5	6579.0	335	230	360
100-2293	4 G 350 (185.0)	BLACK	61.1	8518.0	385	240	380
100-2747	4 G 500 (240.0)	BLACK	67.3	11611.0	453	250	410



Application

casual movement without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms (also water-oil mixture). Outdoor use only with UV-protection, no laying underground.

Special features

- increased resistance to oil by special PVC outer sheath acc. to HD 22.1S3; VDE0472 T803 and UL 1581 T50.182
- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- due to 600 V UL/CSA approval parallel laying with other 600 V cables is permitted
- international approvals (HAR/UL/CSA)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with gn/ye from 3 cores
stranding	stranded in layers
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	U ₀ /U: HAR 300/500 V; UL/CSA 600 V
testing voltage	3 kV
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	12,5 x d
operat. temp. fixed min/max	HAR: -40 °C / +70 °C; UL/CSA: -40 °C / +90 °C
operat. temp. moved min/max	HAR: - 5 °C / +70 C; UL/CSA: - 5 °C / +90 °C
temp. at conductor	+70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1; VW1; CSA FT1
standard	acc. to HD 21.13 S1, DIN VDE 0281 T13; UL style 2517/2587 and CSA C22.2 No. 210.2-M90
approvals	HAR HD21.13.S1; UL-AWM Style 2587; CSA-AWM I A/B II A/B



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-0013	2 X 20 (0.5)	5,7	52,0
100-0016	3 G 20 (0.5)	6,5	63,0
100-0021	4 G 20 (0.5)	7,0	69,0
100-0027	5 G 20 (0.5)	7,7	87,0
100-0032	7 G 20 (0.5)	9,5	119,0
100-0005	12 G 20 (0.5)	11,9	198,0
100-0056	18 G 20 (0.5)	13,6	266,0
100-0010	25 G 20 (0.5)	17,0	380,0
100-0014	34 G 20 (0.5)	19,4	508,0
100-	41 G 20 (0.5)	21,6	594,0
100-	50 G 20 (0.5)	22,6	715,0
100-	61 G 20 (0.5)	24,7	840,0
100-0057	2 X 19 (0.75)	6,0	66,0
100-0017	3 G 19 (0.75)	7,0	76,0
100-0022	4 G 19 (0.75)	7,7	85,0
100-0185	7 G 19 (0.75)	10,6	144,0
100-0006	12 G 19 (0.75)	12,0	245,0
100-0113	18 G 19 (0.75)	14,4	327,0
100-0011	25 G 19 (0.75)	17,5	467,0
100-3524	34 G 19 (0.75)	21,2	626,0
100-3059	41 G 19 (0.75)	23,7	747,0
100-	50 G 19 (0.75)	24,6	896,0
100-	61 G 19 (0.75)	27,9	1.070,0
100-2830	2 X 18 (1.0)	6,3	70,0
100-0018	3 G 18 (1.0)	7,3	88,0
100-0023	4 G 18 (1.0)	8,1	99,0
100-0029	5 G 18 (1.0)	9,3	132,0
100-0033	7 G 18 (1.0)	10,9	170,0
100-1571	12 G 18 (1.0)	13,4	285,0
100-0008	18 G 18 (1.0)	16,2	405,0
100-2295	25 G 18 (1.0)	20,0	570,0
100-0015	34 G 18 (1.0)	22,1	742,0
100-2835	41 G 18 (1.0)	25,4	885,0
100-1895	50 G 18 (1.0)	26,7	1.071,0
100-	61 G 18 (1.0)	29,0	1.265,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-0058	2 X 16 (1.5)	7,4	91,0
100-0019	3 G 16 (1.5)	8,3	110,0
100-0024	4 G 16 (1.5)	9,6	141,0
100-0030	5 G 16 (1.5)	10,5	167,0
100-0034	7 G 16 (1.5)	13,0	225,0
100-0007	12 G 16 (1.5)	15,3	361,0
100-1570	18 G 16 (1.5)	18,5	518,0
100-0012	25 G 16 (1.5)	22,7	730,0
100-	34 G 16 (1.5)	25,3	945,0
100-	41 G 16 (1.5)	29,0	1.135,0
100-0026	50 G 16 (1.5)	30,3	1.381,0
100-	61 G 16 (1.5)	33,3	1.798,0
100-	2 X 14 (2.5)	9,2	125,0
100-0020	3 G 14 (2.5)	9,7	169,0
100-0025	4 G 14 (2.5)	10,7	209,0
100-0031	5 G 14 (2.5)	12,0	256,0
100-0035	7 G 14 (2.5)	13,4	340,0
100-1572	12 G 14 (2.5)	17,9	579,0
100-1997	18 G 14 (2.5)	21,6	851,0
100-3142	25 G 14 (2.5)	26,3	1.175,0
100-	34 G 14 (2.5)	28,4	1.529,0
100-	50 G 14 (2.5)	35,7	2.290,0
100-	61 G 14 (2.5)	37,9	2.724,0

DELTA KABEL



Application

power, control and connecting cable for lossless data and signal transmission in electrical facilities, for fixed laying and casually movement without tensile stress and without defined cable routing. Suitable for use in dry, humid, wet rooms (also water-oil mixture). Outdoor use only with UV-protection, no laying underground.

Special features

- increased resistance to oil by special PVC outer sheath acc. to HD 22.1S3; VDE0472 T803 and UL 1581 T50.182
- largely resistant to acids and bases
- free from lacquer damaging substances and silicone (during production)
- additional protection by inner sheath
- due to 600 V UL/CSA approval parallel laying with other 600 V cables is permitted
- recommended for EMC-applications
- international approvals (HAR/UL/CSA)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with gn/ye from 3 cores
stranding	stranded in layers
inner sheath material	PVC
overall shield	copper braid tinned; coverage approx. 85 %
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	HAR: U ₀ /U 300/500 V; UL/CSA: 600 V
testing voltage	3.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, s. Techn. Guideline
min. bending radius fixed	6 x d
min. bending radius moved	12,5 x d
operat. temp. fixed min/max	HAR: -40 °C / +70 °C; UL/CSA: -40 °C / +90 °C
operat. temp. moved min/max	HAR: -5 °C / +70 °C; UL/CSA: -5 °C / +90 °C
temp. at conductor	+ 70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1; VW1; CSA FT1
standard	acc. to HD 21.13 S1, DIN VDE 0281 T13; UL style 2517/2587 and CSA C22.2 No. 210.2-M90
approvals	HHAR HD21.13.S1; UL-AWM Style 2587; CSA-AWM I A/B II A/B



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	2 X 20 (0.5)	7,7	90,0
100-	3 G 20 (0.5)	8,4	105,0
100-	4 G 20 (0.5)	9,3	123,0
100-0068	5 G 20 (0.5)	10,2	147,0
100-0049	7 G 20 (0.5)	11,5	195,0
100-	12 G 20 (0.5)	13,6	276,0
100-	18 G 20 (0.5)	16,5	418,0
100-	25 G 20 (0.5)	19,7	504,0
100-	34 G 20 (0.5)	21,6	632,0
100-	41 G 20 (0.5)	24,7	750,0
100-	50 G 20 (0.5)	25,7	968,0
100-	61 G 20 (0.5)	27,5	1.068,0
100-1606	2 X 19 (0.75)	8,0	101,0
100-0039	3 G 19 (0.75)	8,8	127,0
100-0232	4 G 19 (0.75)	1,0	155,0
100-0050	7 G 19 (0.75)	12,2	225,0
100-0036	12 G 19 (0.75)	13,8	354,0
100-2828	18 G 19 (0.75)	16,1	517,0
100-3546	25 G 19 (0.75)	18,7	678,0
100-0038	34 G 19 (0.75)	23,2	805,0
100-	41 G 19 (0.75)	25,8	908,0
100-	50 G 19 (0.75)	27,5	1.155,0
100-	61 G 19 (0.75)	30,0	1.400,0
100-2904	2 X 18 (1.0)	8,5	113,0
100-0040	3 G 18 (1.0)	9,5	144,0
100-0042	4 G 18 (1.0)	10,6	178,0
100-0046	5 G 18 (1.0)	11,3	205,0
100-0051	7 G 18 (1.0)	13,1	263,0
100-0037	12 G 18 (1.0)	16,4	424,0
100-	18 G 18 (1.0)	19,1	560,0
100-	25 G 18 (1.0)	22,4	760,0
100-	34 G 18 (1.0)	25,3	945,0
100-	41 G 18 (1.0)	27,3	1.151,0
100-	50 G 18 (1.0)	29,3	1.300,0
100-	61 G 18 (1.0)	32,4	1.500,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	2 x 16 (1.5)	9,4	144,0
100-0041	3 G 16 (1.5)	10,4	160,0
100-0043	4 G 16 (1.5)	11,1	210,0
100-0047	5 G 16 (1.5)	12,1	240,0
100-0052	7 G 16 (1.5)	14,0	305,0
100-1721	12 G 16 (1.5)	17,1	482,0
100-2829	18 G 16 (1.5)	19,8	611,0
100-	25 G 16 (1.5)	24,6	950,0
100-	34 G 16 (1.5)	27,3	1.200,0
100-	41 G 16 (1.5)	29,3	1.400,0
100-	50 G 16 (1.5)	31,5	1.665,0
100-	61 G 16 (1.5)	34,7	1.852,0
100-	2 X 14 (2.5)	11,1	189,0
100-0230	3 G 14 (2.5)	12,3	244,0
100-0044	4 G 14 (2.5)	13,5	296,0
100-0048	5 G 14 (2.5)	14,8	367,0
100-1602	7 G 14 (2.5)	17,1	478,0
100-	12 G 14 (2.5)	21,7	622,0
100-2634	18 G 14 (2.5)	26,1	1.010,0
100-	25 G 14 (2.5)	30,7	1.375,0
100-	34 G 14 (2.5)	34,4	1.893,0
100-	50 G 14 (2.5)	39,3	2.666,0
100-	61 G 14 (2.5)	41,0	3.077,0

DELTA KABEL



Application

power, control and connecting cable in electrical facilities, for fixed laying and casually movement without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms (also water-oil mixture). Outdoor use only with UV-protection, no laying underground.

Special features

- increased resistance to oil by special PVC outer acc. to HD 22.1S3; VDE0472 T803 and UL 1581 T50.182
- largely resistant to acids, bases
- free from lacquer damaging substances and silicone (during production)
- due to 600 V UL/CSA approval parallel laying with other 600 V cables is permitted

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with gn/ye from 3 cores
stranding	stranded in layers
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	HAR: U ₀ /U 300/500 V; UL/CSA: 600 V
testing voltage	3.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	12,5 x d
operat. temp. fixed min/max	-40 °C / +90 °C
operat. temp. moved min/max	- 5 °C / +90 C
temp. at conductor	+ 70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1; VW1; CSA FT1
standard	acc. to HD 21.13 S1, DIN VDE 0281 T13; acc. to UL style 2517/2587 and CSA C22.2 No. 210.2-M90
approvals	UL-AWM Style 2587; CSA-AWM I A/B II A/B



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-3120	3 G 12 (4)	10,3	232,0
100-1840	4 G 12 (4)	11,2	298,0
100-1647	5 G 12 (4)	12,5	358,0
100-	7 G 12 (4)	13,8	460,0
100-	3 G 10 (6)	12,9	360,0
100-2410	4 G 10 (6)	14,2	402,0
100-1627	5 G 10 (6)	15,9	484,0
100-	7 G 10 (6)	19,4	539,3
100-	3 G 8 (10)	16,3	535,0
100-1715	4 G 8 (10)	17,9	653,0
100-1872	5 G 8 (10)	19,7	786,0
100-	7 G 8 (10)	21,7	1.100,0
100-	3 G 6 (16)	19,8	810,0
100-1873	4 G 6 (16)	21,9	1.045,0
100-3573	5 G 6 (16)	25,2	1.260,0
100-	3 G 4 (25)	24,8	1.180,0
100-	4 G 4 (25)	25,6	1.501,0
100-	5 G 4 (25)	28,8	1.853,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	3 G 2 (35)	28,8	1.590,0
100-1892	4 G 2 (35)	29,5	2.123,0
100-3577	5 G 2 (35)	32,4	2.612,0
100-	4 G 1 (50)	35,7	2.898,0
100-3578	4 G 2/0 (50)	43,0	4.052,0
100-3579	4 G 3/0 (50)	47,2	5.430,0
100-	4 G 4/0 (50)	54,2	6.290,0

DELTA KABEL



Application

power, control and connecting cable in electrical facilities for lossless data and signal transmission, fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms (also water-oil mixture). Outdoor use only with UV-protection, no laying underground.

Special features

- increased resistance to oil by special PVC outer sheath acc. to HD 22.1S3; VDE0472 T803 and UL 1581 T50.182
- largely resistant to acids, bases
- free from lacquer damaging substances and silicone (during production)
- additional protection by inner sheath due to 600 V UL/CSA approval parallel laying with other 600 V cables is permitted
- recommended for EMC-applications

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

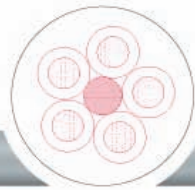
Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with gn/ye from 3 cores
stranding	stranded in layers
inner sheath material	PVC
overall shield	copper braid tinned; coverage approx. 85 %
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	HAR: U ₀ /U 300/500 V; UL/CSA: 600 V
testing voltage	3.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	6 x d
min. bending radius moved	12,5 x d
operat. temp. fixed min/max	-40 °C / +90 °C
operat. temp. moved min/max	-5 °C / +90 °C
temp. at conductor	+ 70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing and flame-retardant acc. to IEC 332-1; VW1; CSA FT1
standard	acc. to HD 21.13 S1, DIN VDE 0281 T13; acc. to UL style 2517/2587 and CSA C22.2 No. 210.2-M90
approvals	UL-AWM Style 2587; CSA-AWM I A/B II A/B



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-3580	3 G 12 (4)	13,2	310,0
100-1598	4 G 12 (4)	14,6	456,0
100-	5 G 12 (4)	15,9	532,0
100-	7 G 12 (4)	19,1	737,0
100-	3 G 10 (6)	15,3	411,0
100-1874	4 G 10 (6)	16,7	572,0
100-1820	5 G 10 (6)	18,5	732,0
100-	7 G 10 (6)	21,2	961,0
100-	3 G 8 (10)	19,2	741,0
100-3840	4 G 8 (10)	21,3	988,0
100-2841	5 G 8 (10)	23,9	1.202,0
100-	7 G 8 (10)	26,7	1.743,0
100-	3 G 6 (16)	24,4	1.088,0
100-2705	4 G 6 (16)	29,4	1.662,0
100-	5 G 6 (16)	30,8	2.021,0
100-	3 G 4 (25)	30,4	1.947,0
100-3587	4 G 4 (25)	32,0	3.250,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	3 G 2 (35)	34,0	2.701,0
100-	4 G 2 (35)	37,9	3.277,0
100-	5 G 2 (35)	41,7	4.530,0
100-	4 G 1 (50)	42,0	3.362,0
100-	3 G 2/0 (70)	45,0	3.770,0
100-	4 G 2/0 (70)	47,4	4.490,0
100-	3 G 3/0 (95)	45,1	4.500,0
100-	4 G 3/0 (95)	50,0	5.540,0
100-	4 G 4/0 (120)	56,6	6.960,0



Application

halogen-free and environmentally power, control and connecting cable in electrical facilities, in fire vulnerable areas and facilities with high concentration of people and property values, for fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry and humid rooms. Outdoor use only with UV-protection, no laying underground.

Special features

- free from lacquer damaging substances and silicone (during production)
- FRNC (Flame Retardant, Non Corrosive)
- LSF 0H (Low smoke in fume, zero halogen)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- also available: FLAME-JZ-Hö FRNC with increased resistance to oil
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	special halogen-free compound
core identification	acc. to DIN VDE 0293 black cores with white numerals with gn/ye from 3 cores
stranding	stranded in layers
outer sheath	special halogen-free compound
sheath colour	grey, RAL 7001
rated voltage	Uo/U: 300/500 V
testing voltage	3 kV
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70C
halogen free	halogen-free and ultra flame-retardant DIN VDE 0482 part 265-1 (IEC 332/3-test C)
standard	acc. to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	2 X 20 (0.5)	5,4	45,0
100-	3 G 20 (0.5)	5,7	60,0
100-3907	4 G 20 (0.5)	6,3	70,0
100-	5 G 20 (0.5)	6,8	90,0
100-	7 G 20 (0.5)	8,2	125,0
100-	12 G 20 (0.5)	10,1	180,0
100-3598	18 G 20 (0.5)	12,4	280,0
100-	25 G 20 (0.5)	15,0	330,0
100-1876	2 X 19 (0.75)	6,3	81,0
100-1678	3 G 19 (0.75)	6,8	99,0
100-1919	4 G 19 (0.75)	7,5	109,0
100-1681	5 G 19 (0.75)	10,0	176,0
100-2442	7 G 19 (0.75)	10,0	176,0
100-1680	12 X 19 (0.75)	5,6	64,0
100-1907	18 G 19 (0.75)	6,1	78,0
100-2445	25 G 19 (0.75)	6,6	97,0
100-2859	2 X 18 (1.0)	8,2	131,0
100-0760	3 G 18 (1.0)	10,5	220,0
100-0761	4 G 18 (1.0)	10,5	220,0
100-0764	5 G 18 (1.0)	6,4	87,0
100-1918	7 G 18 (1.0)	6,8	109,0
100-2857	12 G 18 (1.0)	7,3	133,0
100-2786	18 G 18 (1.0)	8,3	163,0
100-2860	25 G 18 (1.0)	9,1	166,0
100-	34 G 18 (1.0)	12,2	307,0
100-1926	2 X 16 (1.5)	7,7	128,0
100-1683	3 G 16 (1.5)	8,3	162,0
100-0762	4 G 16 (1.5)	9,1	203,0
100-0765	5 G 16 (1.5)	10,2	242,0
100-0766	7 G 16 (1.5)	11,3	321,0
100-0758	12 G 16 (1.5)	15,1	504,0
100-1695	18 G 16 (1.5)	15,1	504,0
100-1694	25 G 16 (1.5)	9,4	187,0
100-2310	34 G 16 (1.5)	10,1	214,0
100-	50 G 16 (1.5)	11,0	297,0
100-	61 G 16 (1.5)	12,3	355,0
100-3601	2 X 14 (2.5)	13,7	471,0
100-2637	3 G 14 (2.5)	18,0	790,0
100-1682	4 G 14 (2.5)	11,9	318,0
100-1693	5 G 14 (2.5)	12,8	394,0
100-2708	7 G 14 (2.5)	14,4	489,0
100-3189	12 G 14 (2.5)	16,0	625,0
100-3232	18 G 14 (2.5)	16,0	625,0
100-	25 G 14 (2.5)	16,0	625,0
100-	3 G 12 (4)	16,0	625,0
100-0763	4 G 12 (4)	16,0	625,0
100-1692	5 G 12 (4)	16,0	625,0
100-3233	7 G 12 (4)	16,0	625,0
100-	12 G 12 (4)	16,0	625,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	3 G 10 (6)	12,7	399,0
100-2698	4 G 10 (6)	14,1	590,0
100-2703	5 G 10 (6)	15,8	715,0
100-	7 G 10 (6)	17,6	963,0
100-	3 G 8 (10)	16,2	750,0
100-2699	4 G 8 (10)	18,0	908,0
100-3252	5 G 8 (10)	19,8	1.120,0
100-	7 G 8 (10)	22,5	1.460,0
100-2964	4 G 6 (16)	20,6	1.338,0
100-2861	5 G 6 (16)	23,5	1.485,0
100-	7 G 6 (16)	26,2	1.869,0
100-2716	4 G 4 (25)	27,7	1.661,0
100-	5 G 4 (25)	30,8	2.099,0
100-3185	4 G 2 (35)	33,7	2.210,0
100-	5 G 2 (35)	37,7	2.756,0
100-3610	4 G 250 (50)	38,0	3.087,0
100-	5 G 250 (50)	42,1	4.133,0
100-	3 G 350 (70)	44,2	4.295,0
100-	4 G 350 (70)	48,5	5.715,0
100-	4 G (95)	51,2	5.817,0
100-	5 G (95)	56,3	7.278,0
100-3615	4 G (120)	54,8	7.350,0



Application

halogen-free and environmentally power, control and connecting cable in electrical facilities, in fire vulnerable areas and facilities with high concentration of people and property values, for fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry and humid rooms. Outdoor use only with UV-protection, no laying underground.

Special features

- free from lacquer damaging substances and silicone (during production)
- additional protection by inner sheath
- FRNC (Flame Retardant, Non Corrosive)
- LSF 0H (Low smoke in fume, zero halogen)
- recommended for EMC-applications

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- also available: FLAME-JZ-HCHö FRNC with increased resistance to oil
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

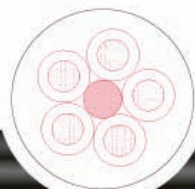
Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	special halogen-free compound
core identification	acc. to DIN VDE 0293 black cores with white numerals with gn/ye from 3 cores
stranding	stranded in layers
overall shield	copper braid tinned; coverage approx. 85 %
outer sheath	special halogen-free compound
sheath colour	grey, RAL 7001
rated voltage	Uo/U 300/500 V
testing voltage	3.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	6 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-40 °C / +80 °C
operat. temp. moved min/max	- 5 °C / +70 °C
halogen free	halogen-free and ultra flame-retardant DIN VDE 0482 par t 265-1 (IEC 332/3-test C)
standard	according to DIN VDE 0245, 0250 and 0281



PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	2 X 20 (0.5)	6,0	46,0
100-	3 G 20 (0.5)	6,3	56,0
100-	4 G 20 (0.5)	6,8	62,0
100-	5 G 20 (0.5)	7,4	75,0
100-	7 G 20 (0.5)	8,8	98,0
100-	12 G 20 (0.5)	10,9	158,0
100-	18 G 20 (0.5)	13,0	216,0
100-	25 G 20 (0.5)	15,8	315,0
100-2753	2 X 19 (0.75)	6,6	60,0
100-2872	3 G 19 (0.75)	7,0	60,0
100-3188	4 G 19 (0.75)	7,6	78,0
100-2848	5 G 19 (0.75)	8,4	95,0
100-3027	7 G 19 (0.75)	10,0	130,0
100-3619	12 X 19 (0.75)	12,4	203,0
100-3061	18 G 19 (0.75)	14,8	290,0
100-3229	25 G 19 (0.75)	18,1	413,0
100-3177	2 X 18 (1.0)	6,9	66,0
100-2832	3 G 18 (1.0)	7,2	80,0
100-3204	4 G 18 (1.0)	7,9	100,0
100-1822	5 G 18 (1.0)	8,8	130,0
100-1845	7 G 18 (1.0)	10,7	160,0
100-2968	12 G 18 (1.0)	13,0	260,0
100-3620	18 G 18 (1.0)	15,9	382,0
100-3621	25 G 18 (1.0)	19,2	540,0
100-3518	2 X 16 (1.5)	7,8	88,0
100-1696	3 G 16 (1.5)	8,4	100,0
100-0656	4 G 16 (1.5)	9,4	125,0
100-3622	5 G 16 (1.5)	10,2	158,0
100-3192	7 G 16 (1.5)	12,4	210,0
100-3194	12 G 16 (1.5)	15,5	340,0
100-3623	18 G 16 (1.5)	18,4	480,0
100-3624	25 G 16 (1.5)	22,7	702,0
100-3121	2 X 14 (2.5)	8,6	132,0
100-3024	3 G 14 (2.5)	9,1	168,0
100-2672	4 G 14 (2.5)	10,1	195,0
100-3258	5 G 14 (2.5)	11,2	222,0
100-3625	7 G 14 (2.5)	13,6	345,0
100-3626	12 G 14 (2.5)	17,0	572,0
100-3191	3 G 12 (4)	11,2	238,0
100-2480	4 G 12 (4)	12,4	305,0
100-	5 G 12 (4)	13,8	388,0
100-	7 G 12 (4)	16,9	504,0

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
100-	3 G 10 (6)	13,3	328,0
100-3115	4 G 10 (6)	14,9	416,0
100-	5 G 10 (6)	16,4	510,0
100-	7 G 10 (6)	18,3	670,0
100-	3 G 8 (10)	16,8	495,0
100-2590	4 G 8 (10)	18,6	785,0
100-3631	5 G 8 (10)	20,7	855,0
100-3632	7 G 8 (10)	23,2	1.308,0
100-3117	4 G 6 (16)	21,8	882,0
100-3633	5 G 6 (16)	24,3	1.293,0
100-3634	7 G 6 (16)	27,2	2.149,0
100-3114	4 G 4 (25)	28,9	1.911,0
100-3635	5 G 4 (25)	31,8	2.414,0
100-3072	4 G 2 (35)	34,8	2.542,0
100-3636	5 G 2 (35)	39,0	3.180,0
100-3637	4 G 250 (50)	39,2	3.550,0
100-3638	5 G 250 (50)	43,4	4.753,0
100-3639	3 G 2/0 (70)	45,3	4.939,0
100-3640	4 G 2/0 (70)	49,6	6.572,0
100-3641	4 G 3/0 (95)	52,4	6.690,0
100-	5 G 3/0 (95)	57,5	8.370,0
100-	4 G 4/0 (120)	56,0	8.453,0



Application

- 1.-In Industrial Tray Cable Applications
- 2.-With All Types of Control and Signal Circuits

Special features

OPERATING TEMPERATURE:

- 1.- -20°C to 90°C

VOLTAGE RATING:

- 1.-600 Volt

COLOR DESCRIPTION:

- 1.-Color Code
- 2.-Jacket Color: Black

PRODUCT DESCRIPTION:

- 1.-Conductor: Stranded Bare Cooper
- 2.-Insulation: PVC/Nylon
- 3.-Jacket: PVC

Structure & Specifications

- 1.-UL Standard 1277
- 2.-NEC ARTICLE 340 Class 1 Div, 2
- 3.-ICEA S-61-402
- 4.-Passes UL Vertical Tray Flame Test



PART NO.	Dimension n x AWG (mm ²)	Thickness mm	Dimeter mm
7500	2 X 16 (1.5)(flat)	1,14	5,0 X 7,8
7502	3 X 16 (1.5)	1,14	8,0
7503	4 X 16 (1.5)	1,14	8,6
7506	7 X 16 (1.5)	1,14	10,1
7508	9 X 16 (1.5)	1,14	11,6
7518	19 X 16 (1.5)	1,52	16,1
7519	20 X 16 (1.5)	1,52	16,8
7523	24 X 16 (1.5)	1,52	18,7
7524	25 X 16 (1.5)	1,52	18,7
7527	3 X 14 (2.5)	1,14	8,6
7528	4 X 14 (2.5)	1,14	9,4
7529	5 X 14 (2.5)	1,14	10,2
7531	7 X 14 (2.5)	1,14	11,1
7534	10 X 14 (2.5)	1,52	15,1
7536	12 X 14 (2.5)	1,52	15,4
7540	16 X 14 (2.5)	1,52	17,1
7544	20 X 14 (2.5)	1,52	18,9
7548	24 X 14 (2.5)	1,52	20,9
7549	25 X 14 (2.5)	1,52	20,9
7540/30	30 X 14 (2.5)	2,03	23,2
7550	2 X 12 (4)(flat)	1,14	5,7 X 9,2
7552	3 X 12 (4)	1,14	9,7
7553	4 X 12 (4)	1,14	10,6
7556	7 X 12 (4)	1,14	12,7
7559	10 X 12 (4)	1,52	16,8
7561	12 X 12 (4)	1,52	17,4
7582	3 X 10 (6)	1,14	11,6
7583	4 X 10 (6)	1,14	12,8
7584	7 X 10 (6)	1,52	14,8

DELTA KABEL

16 AWG (1.50 mm²)/25c RU AWM E63634-CSA AWM I/II A/B FT1 CE



Application

Choose XTRA-GUARD High-Flex Control Cables for:

- 1.-Extra Flexibility and Durability for continuous Motion
- 2.-Extended Cycle Life 13,8 Million (Test Report Available)
- 3.-Outstanding Oil and Chemical Resistance
- 4.-Jacket Meets VDE 0472, Section 803 Oil Test
- 5.-UL Recognized and CSA Certified, CE Marked

XTR-GUARD High-Flex Control Cable Applications:

- 1.-Applications Requiring Continuous Flexing
- 2.-Robotic
- 3.-Installation in Cable Track
- 4.-Data Processing Equipment
- 5.-Assembly lines
- 6.-Automation Equipment
- 7.-Material Handling Equipment

Special features

OPERATING TEMPERATURE:

- 1.- -5°C to 90°C (Flexible)
- 2.- -40°C to 90°C (Stationary)

VOLTAGE RATING:

- 1.-600 Volt

COLOR DESCRIPTION:

- 1.-Color Code: Numerically Numbered (Alternate and Inverted) Red Conductors with One Green/Yellow Conductor on Outside Layer
- 2.-Jacket Color: Black

PRODUCT DESCRIPTION:

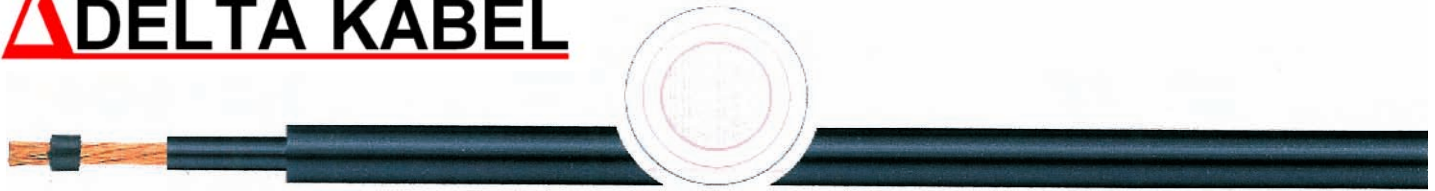
- 1.-Conductor: Super Finely Stranded Bare Copper
- 2.-Insulation: Lubricated PVC
- 3.-Fillers: Non-Wicking, Solid PVC Rod
- 4.-Warp: Non-Wicking Fabric
- 5.-Jacket: Oil Resistant PVC

Structure & Specifications

- 1.-Bend Radius: 8X Cable Diameter
- 2.-UL AWM Style 2587
- 3.-CSA AWM II A/B FT 1
- 4.-Jacket Meets VDE 0472, Section 803 Oil Test
- 5.-Passes MIL-C-13777G Flexlife Test
- 6.-CE LVD-CE 73/23/ECC Modified by CD 93/68/ECC



PART NO.	Dimension n x AWG (mm ²)	Thickness mm	Dimeter mm
85003	3 G 20 (0.5)	0,89	6,8
85004	4 G 20 (0.5)	0,89	7,3
85005	5 G 20 (0.5)	0,89	8,1
85007	7 G 20 (0.5)	1,00	9,3
85012	12 G 20 (0.5)	1,10	11,5
85018	18 G 20 (0.5)	1,30	13,6
85025	25 G 20 (0.5)	1,70	16,9
85034	34 G 20 (0.5)	1,70	18,6
85803	3 G 18 (1.0)	0,89	7,3
85804	4 G 18 (1.0)	0,89	7,9
85805	5 G 18 (1.0)	0,89	8,6
85807	7 G 18 (1.0)	1,10	10,3
85812	12 G 18 (1.0)	1,30	12,8
85815	15 G 18 (1.0)	1,30	14,0
85818	18 G 18 (1.0)	1,30	14,8
85825	25 G 18 (1.0)	1,70	18,3
85834	34 G 18 (1.0)	1,70	20,3
85603	3 G 16 (1.5)	0,89	8,3
85604	4 G 16 (1.5)	0,89	9,0
85605	5 G 16 (1.5)	0,89	9,8
85607	7 G 16 (1.5)	1,00	11,6
85612	12 G 16 (1.5)	1,10	14,4
85618	18 G 16 (1.5)	1,10	16,8
85625	25 G 16 (1.5)	1,70	21,1
85634	34 G 16 (1.5)	1,70	23,5
85404	4 G 14 (2.5)	1,30	10,8
85407	7 G 14 (2.5)	1,80	14,5
85204	4 G 12 (4)	1,8	13,2
85207	7 G 12 (4)	2,5	17,8
85014	4 G 10 (6)	1,80	14,8
85107	7 G 10 (6)	2,50	20,0



Application

As a single core shielded and unshield power and control cable normal requirements in drag chain application, for motion drive systems and in the field of robotic technology in dry and wet rooms

Special features

- Flame resistant, low-adhesion, self-extinguishing
- Largely resistant to oil, grease coolant fluids and lubricants
- Due to 600V UL/CSA approval parallel laying with other 600V cables is permitted
- Free from lacquer damaging substance & silicone (during production)

Remarks

- Conform to RoHS
- Conform to 73/23/ EWG-Guideline CE
- Alternative available as multi core version see chapter 04.02.01
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

Conductor Material	Bare Copper Standard
Conductor Class	Acc. to DIN VDE 0295 cl. 6 resp. IEC 228 cl.6
Core Insulation	PVC
Core Identification	Schwarz
Eng:Berührungsschutz	With Overall Shield Present Under the Screen
Overall Shield	With and Without Overall Shield Optional Available Look At The Table of Right Side
Protection Against Contact	With Overall Shield Present Above Screen
Outer Sheath	PVC
Sheath Colour	Black, RAL 9005
Printing	Optional
Rated Voltage	UL/CSA 600V
Testing Voltage	4000 V
Conductor Resistance	At +20°C According to DIN VDE 0295 Class 6 Resp. IEC 228 Class 6
Insulation Resistance	Min. 20 MΩ X Km
Current Carrying Capacity	Acc. DIN VDE
Min. Bending Radius Fixed	5 X d
Min. Bending Radius Moved	7,5 X d
Operat. Temp. Fixed min/max	-30°C / +80°C
Operat. Temp. Moved min/max	-5°C / +70°C
Burning Behavior	According to DIN VDE 0482 part 265-2-1 Resp. EN 50265-2-1, Flame-retardant
Standard	According to DIN VDE 0207, 0250, 0293, 0295 and 0812 resp, ICE
Approvals	UL/CSA



CABLE SIN BLINDAJE

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
150-3955	1 X 8 (10)	9,5	180,0
150-3956	1 X 6 (16)	11,0	245,0
150-3957	1 X 4 (25)	12,3	365,0
150-3958	1 X 2 (35)	14,7	485,0
150-3959	1 X 1 (50)	16,8	665,0
150-3960	1 X 2/0 (70)	18,9	886,0
150-3961	1 X 3/0 (95)	20,4	1.164,0
150-3962	1 X 4/0 (120)	24,2	1.498,0
150-3963	1 X 300 MCM (150)	25,9	1.910,0

CABLE BLINDADO

PART NO.	Dimension n x AWG (mm ²)	Outer Ø mm	Weight kg/km
160-3960	1 X 8 (10)	10,2	230,0
160-3961	1 X 6 (16)	11,7	300,0
160-3962	1 X 4 (25)	13,0	415,0
160-3963	1 X 2 (35)	15,6	610,0
160-3964	1 X 1 (50)	17,7	815,0
160-3965	1 X 2/0 (70)	20,0	976,0
160-3966	1 X 3/0 (95)	21,7	1.301,0
160-3967	1 X 4/0 (120)	24,8	1.639,0
160-3968	1 X 300 MCM (150)	27,0	2.070,0



Application

power and control cable for trolley systems, transfer lines, machine-tools especially on hoisting devices, lift, crane and container bridges. Also in applications where cables are bended strongly in permanent moving operation in one level. Suitable for dry, humid and wet rooms.

Special features

- significant smaller bending radius compared to round cables
- free from lacquer damaging substances and silicone (during production)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

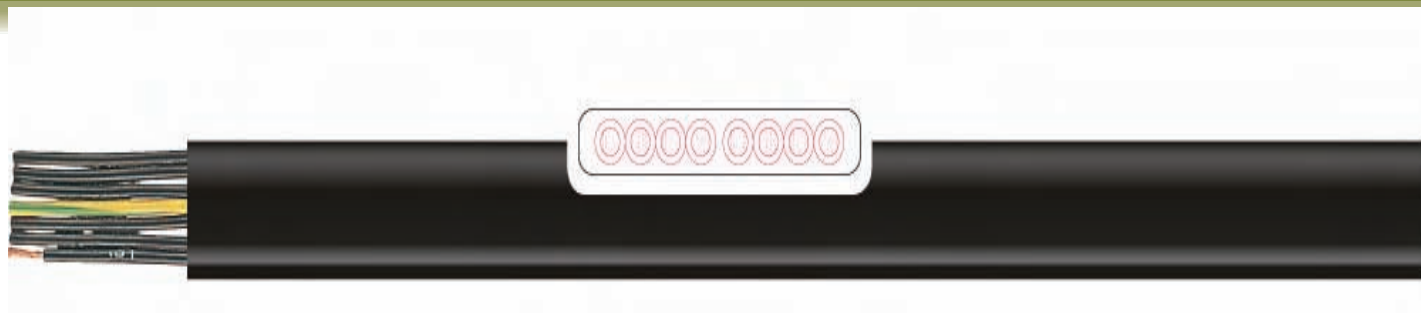
Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to VDE 0293-308 up to 5 wires coloured, from 6 wires black with white numerals with or without gn/ye
stranding	cores resp. bundles parallel side by side
outer sheath	PVC
sheath colour	black, RAL 9005
printing	yes
rated voltage	U ₀ /U 300/500 V
testing voltage	2 kV
current carrying capacity	acc. to DIN VDE, see Technical Guideline
min. bending radius fixed	acc. to DIN VDE 0298 part 3
min. bending radius moved	acc. to DIN VDE 0298 part 3
operat. temp. fixed min/max	-30 °C / +60 °C
operat. temp. moved min/max	-20 °C / +60 °C
temp. at conductor	+70 °C
burning behavior	self-extinguishing and flame retardant acc. to IEC 332-1
standard	acc. to DIN VDE 0281 part 403



PART NO.	Dimension n x AWG (mm ²)	Dimension (Height x width) mm	Weight kg/km
300-	4 G 19 (0.75)	4,2 X 13,0	100,0
300-	8 G 19 (0.75)	4,2 X 25,5	190,0
300-0586	12 G 19 (0.75)	4,2 X 33,5	260,0
300-	16 G 19 (0.75)	4,2 X 45,0	350,0
300-0599	18 G 19 (0.75)	4,2 X 51,0	400,0
300-0605	20 G 19 (0.75)	4,2 X 54,5	430,0
300-0606	24 G 19 (0.75)	4,2 X 65,0	510,0
300-	4 G 18 (1.0)	4,4 X 13,5	115,0
300-0641	5 G 18 (1.0)	4,4 X 16,0	135,0
300-0654	8 G 18 (1.0)	4,4 X 26,5	220,0
300-0588	12 G 18 (1.0)	4,4 X 36,0	310,0
300-0601	18 G 18 (1.0)	4,4 X 55,0	470,0
300-0608	24 G 18 (1.0)	4,4 X 70,0	600,0

PART NO.	Dimension n x AWG (mm ²)	Dimension (Height x width) mm	Weight kg/km
300-	3 X 4 G (1.0)	8,1 x 19,5	300,0
300-	4 X 4 G (1.0)	8,1 x 25,6	400,0



Application

power and control cable for trolley systems, transfer lines, machine-tools especially on hoisting devices, lift, crane and container bridges. Also in applications where cables are bended strongly in permanent moving operation in one level. Suitable for dry, humid and wet rooms.

Special features

- significant smaller bending radius compared to round cables
- free from lacquer damaging substances and silicone (during production)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to VDE 0293-308 up to 5 wires coloured, from 6 wires black with white numerals with or without gn/ye
stranding	cores parallel side by side
outer sheath	PVC
sheath colour	black, RAL 9005
printing	yes
rated voltage	U ₀ /U 450/750 V
testing voltage	2,5 kV
current carrying capacity	acc. to DIN VDE, see Technical Guideline
min. bending radius fixed	acc. to DIN VDE 0298 part 3
min. bending radius moved	acc. to DIN VDE 0298 part 3
operat. temp. fixed min/max	-30 °C / +60 °C
operat. temp. moved min/max	-20 °C / +60 °C
temp. at conductor	+70 °C
burning behavior	self-extinguishing and flame retardant acc. to IEC 332-1
standard	acc. to DIN VDE 0281 part 404



PART NO.	Dimension n x AWG (mm ²)	Dimension (Height x width) mm	Weight kg/km
300-	4 x 16 (1.5)	5,0 X 14,5	150,0
300-	8 x 16 (1.5)	5,0 X 27,8	300,0
300-	12 x 16 (1.5)	5,0 X 39,5	420,0
300-0616	4 G 16 (1.5)	5,0 X 14,5	150,0
300-0642	5 G 16 (1.5)	5,0 X 17,3	180,0
300-0648	7 G 16 (1.5)	5,0 X 25,3	260,0
300-0655	8 G 16 (1.5)	5,0 X 27,8	300,0
300-0581	10 G 16 (1.5)	5,0 X 33,7	360,0
300-0589	12 G 16 (1.5)	5,0 X 39,5	420,0
300-0596	14 G 16 (1.5)	5,0 X 46,5	500,0
300-0598	16 G 16 (1.5)	5,0 X 51,9	560,0
300-0603	18 G 16 (1.5)	5,0 X 59,3	620,0
300-0611	24 G 16 (1.5)	5,2 X 83,0	820,0
300-0623	4 G 14 (2.5)	5,7 X 17,9	210,0
300-0647	5 G 14 (2.5)	5,7 X 21,2	260,0
300-0650	7 G 14 (2.5)	5,7 X 31,3	380,0
300-0657	8 G 14 (2.5)	5,7 X 33,2	405,0
300-0593	12 G 14 (2.5)	5,7 X 49,1	620,0
300-0612	24 G 14 (2.5)	5,7 X 102,0	1.220,0

PART NO.	Dimension n x AWG (mm ²)	Dimension (Height x width) mm	Weight kg/km
300-0631	4 G 12 (4)	6,6 x 20,2	300,0
300-0640	5 G 12 (4)	6,6 x 26,4	390,0
300-0652	7 G 12 (4)	6,6 x 35,6	550,0
300-0778	12 G 12 (4)	6,6 x 57,0	880,0
300-0634	4 G 10 (6)	7,2 X 22,2	385,0
300-0644	5 G 10 (6)	7,2 X 26,6	530,0
300-0653	7 G 10 (6)	7,2 X 43,0	750,0
300-0618	4 G 8 (10)	9,1 X 27,8	620,0
300-0645	5 G 8 (10)	9,1 X 34,9	1.120,0
300-0621	4 G 6 (16)	10,8 X 35,5	990,0
300-	5 G 6 (16)	11,2 X 43,5	1.200,0
300-	4 G 4 (25)	12,8 X 40,8	1.550,0
300-	4 G 2 (35)	14,6 X 48,9	2.030,0
300-	4 G 1 (50)	16,2 X 53,4	2.650,0
300-	4 G 2/0 (70)	18,0 X 61,4	3.650,0
300-	4 G 3/0 (95)	20,5 X 70,2	4.550,0



Application

power and control cable for trolley systems, transfer lines, machine-tools, on hoisting devices, lift, crane and container bridges. Also in applications where cables are bended strongly in permanent moving operation in one level. Suitable for dry, humid and wet rooms and for outdoor use.

Special features

- significant smaller bending radius compared to round cables
- free from lacquer damaging substances and silicone (during production)

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE.
- also available as 1 kV version or with UL-approval
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5/6 resp. IEC 228 class 5/6
core insulation	rubber compound
core identification	acc. to VDE 0293-308 up to 5 wires coloured, from 6 wires black with white numerals with gn/ye
stranding	cores resp. bundles parallel side by side
outer sheath	Polychloropren (NEOPRENE®)
sheath colour	black
rated voltage	U ₀ /U 300/500 V
testing voltage	2 kV
current carrying capacity	acc. to DIN VDE, see Technical Guideline
min. bending radius fixed	acc. to DIN VDE 0298 part 3
min. bending radius moved	acc. to DIN VDE 0298 part 3
operat. temp. fixed min/max	-40 °C / +85 °C
operat. temp. moved min/max	-25 °C / +85 °C
temp. at conductor	+90 °C
standard	acc. to DIN VDE 0250 part 809



PART NO.	Dimension n x AWG (mm ²)	Dimension (Height x width) mm	Weight kg/km
300-0040	4 x 16 (1.5)	6,4 X 17,0	190,0
300-0052	5 x 16 (1.5)	6,4 X 21,5	240,0
300-0059	7 x 16 (1.5)	6,4 X 29,1	300,0
300-0067	8 x 16 (1.5)	6,4 X 32,0	340,0
300-0034	10 G 16 (1.5)	7,0 X 40,7	465,0
300-0036	12 G 16 (1.5)	7,0 X 47,5	550,0
300-	4 G 14 (2.5)	7,8 X 27,7	280,0
300-	5 G 14 (2.5)	7,8 X 26,0	355,0
300-0062	7 G 14 (2.5)	7,8 X 33,0	485,0
300-0068	8 G 14 (2.5)	7,8 X 38,0	510,0
300-0035	10 G 14 (2.5)	8,2 X 48,0	680,0
300-0037	12 G 14 (2.5)	8,2 X 54,8	795,0
300-	4 G 12 (4)	9,1 X 24,8	395,0
300-	5 G 12 (4)	9,0 X 32,0	520,0
300-0065	7 G 12 (4)	9,1 X 39,8	675,0
300-	4 G 10 (6)	9,9 X 27,9	540,0
300-	5 G 10 (6)	9,9 X 34,7	505,0
300-0066	7 G 10 (6)	9,9 X 45,9	910,0
300-	4 G 8 (10)	11,2 X 33,3	775,0
300-	5 G 8 (10)	11,2 X 41,5	985,0
300-0060	7 G 8 (10)	11,2 X 55,3	1.385,0

PART NO.	Dimension n x AWG (mm ²)	Dimension (Height x width) mm	Weight kg/km
300-	4 G 6 (16)	13,0 x 38,7	1.110,0
300-	5 G 6 (16)	13,0 x 50,0	1.410,0
300-0061	7 G 6 (16)	14,0 x 66,0	2.345,0
300-	4 G 12 (25)	14,7 x 46,0	1.465,0
300-	5 G 10 (25)	16,0 X 60,0	2.200,0
300-0063	7 G 10 (25)	16,5 X 79,0	3.240,0
300-	4 G 2 (35)	17,6 X 53,2	2.175,0
300-0064	7 G 2 (35)	18,2 X 91,0	4.140,0
300-	4 G 1 (50)	20,1 X 62,0	3.020,0
300-	4 G 2/0 (70)	23,0 X 71,0	4.325,0
300-	4 G 3/0 (95)	25,5 X 81,0	5.110,0
300-	4 G 4/0 (120)	28,0 X 91,0	6.340,0
300-	3 X 4 G 16 (1.5)	15,0 X 35,0	810,0
300-	4 X 4 G 16 (1.5)	15,0 X 45,0	1.055,0
300-0038	6 X 4 G 16 (1.5)	12,5 X 55,0	1.050,0
300-	3 X 4 G 14 (2.5)	17,0 X 41,0	1.125,0
300-0459	4 X 4 G 14 (2.5)	17,0 X 53,0	1.465,0
300-0039	6 X 4 G 14 (2.5)	17,0 X 71,0	1.920,0




Application

LiYvz as switching strand for wiring telecommunication units, electrical modules in devices as well as telecommunication facilities. H05V-U/-K as single core for internal wiring of devices as well as protected laying within and on shiners. Laying within pipes on-wall and in-wall permitted for signal facilities. H07V-U/-R/-K as single core for internal wiring of devices as well as protected laying within and on shiners. Laying within pipes on-wall and in-wall permitted for signal facilities.

Special features

- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)
- self-extinguishing and flame-retardant
- no direct laying on pallets, in channels or trays (exceptional as potential compensation)
- all usual standard colours available

Remarks

- conform to RoHS
- conform to 73/23/EWG-Guideline CE
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications

conductor material	LiYvz: copper strand tinned; H05V-U/-K, H07V-U/-K/-R: bare copper conductor
conductor class	LiYvz: VDE 0812; H05V-U/-K, H07V-U/-K/-R: DIN VDE 0295 class 1,2, 5 resp. IEC 228 class 1,2,5 resp. HD383
core insulation	PVC
core identification	different colours
rated voltage	H05V...300/500 V; H07V...450/750 V; peak voltage LiYvz 500V (0,14mm ²), 900 V (0,25mm ²)
testing voltage	H05V... 2 kV; H07V... 2,5 kV; LiYvz... 1,2 kV (0,14mm ²), 2,5 kV (0,25mm ²)
conductor resistance	at +20 °C LiYvz acc. to VDE 0812; H05V... and H07V... acc. to DIN VDE 0295 resp. IEC 228
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	10 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +70 °C
operat. temp. moved min/max	-5 °C / +70 °C
burning behavior	acc. to DIN VDE 0472 part 804 test B and IEC 332-1
standard	LiYvz acc. to VDE0812; H05V... and H07V... acc. to VDE 0281/HD21
approvals	H05V... and H07V... HAR



dimension mm ²	outer Ø mm	copper weight kg/km	weight kg/km
LiYvz			
0,14	1,20	1,4	3,10
0,25	1,40	2,4	4,20
0,5	1,95	4,8	7,10
0,75	2,15	7,2	9,80
1,0	2,25	9,6	13,70
1,5	2,75	14,4	18,50
H05V-U			
0,5	2,3	4,8	7,0
0,75	2,5	7,2	10,0
1,0	2,7	9,6	14,0
0,5	2,5	4,8	7,5
0,75	2,7	7,2	10,5
1,0	2,8	9,6	15,0
H05V-K			
0,5	2,5	4,8	7,5
0,75	2,7	7,2	10,5
1,0	2,8	9,6	15,0
H07V-U			
1,5	3,2	14,4	19,0
2,5	3,9	24,0	30,0
4,0	4,4	38,0	45,0
6,0	5,0	58,0	63,0
10,0	6,4	96,0	110,0
H07V-R			
16,0	7,8	154,0	165,0
25,0	9,7	240,0	264,0
35,0	10,9	336,0	360,0
50,0	12,8	480,0	490,0
70,0	14,6	672,0	720,0
95,0	17,1	912,0	1.015,0
120,0	18,8	1.152,0	1.250,0
150,0	20,9	1.440,0	1.500,0
185,0	23,3	1.776,0	1.900,0
240,0	26,6	2.304,0	2.440,0
300,0	29,6	2.880,0	3.100,0

dimension mm ²	outer Ø mm	copper weight kg/km	weight kg/km
H07V-K			
1,5	3,4	14,4	22,0
2,5	4,1	24,0	30,0
4,0	4,8	38,0	66,0
6,0	5,3	58,0	112,0
10,0	6,8	96,0	172,0
16,0	8,1	154,0	268,0
25,0	10,2	240,0	363,0
35,0	11,7	336,0	510,0
50,0	13,9	480,0	700,0
70,0	16,0	672,0	960,0
95,0	18,2	912,0	1.295,0
120,0	20,2	1.152,0	1.590,0
150,0	22,5	1.440,0	2.085,0
185,0	24,9	1.776,0	2.450,0
240,0	28,4	2.304,0	3.160,0

DELTA KABEL



Application

Choose XTRA-GUARD 2 for:

- 1.- Now Rated to 105°C!
- 2.- Unmatched Resistance to Oils, Fuels, Solvents, and Water
- 3.- Twice the Tensile Strength of PVC
- 4.- Three times the Tear and Abrasion Resistance of PVC
- 5.- Superior Low-Temperature Flexibility to -20°C
- 6.- Ultraviolet Light Stability (jacket color black)
- 7.- Extraordinary Fungus Resistance

XTRA-GUARD 2 Applications:

- 1.- CNC Machine Centers
- 2.- Automotive Assembly Plant Operations
- 3.- Military Ground Support Systems
- 4.- Packaging Machinery
- 5.- Petrochemical Plant Operations
- 6.- Geophysical Exploration Equipment

Special features

OPERATING TEMPERATURE:

- 1.- -20°C to 105°C

VOLTAGE RATING:

- 1.-600 Volt

COLOR DESCRIPTION:

- 1.- Color Code: Chart E Page 375
- 2.- Jacket Colors: Yellow, Orange, Blue, Green, Red, Black, White and Gray

PRODUCT DESCRIPTION:

- 1.- Conductor: Stranded Tinned Copper
- 2.- Insulation: Color-Coded Premium PVC
- 3.- Shield: Aluminum/Polyester Foil Facing In with Stranded Tinned Copper Drain Wire Equal in Size to Insulated Conductors of Cable
- 4.- Nylon Rip Cord for Ease of Jacket Stripping
- 5.-Jacket; Specially Formulated Polyurethane

Structure & Specifications

- 1.- UL AWM Style 20952
- 2.- CSA AWM II A/B FT1
- 3.- Passes UL VW-1 Flame Test
- 4.- Passes CSA FT1 Flame Test