



300/500V, shielded, CPR Dca



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

- LABS-free (during production)
- FRNC (Flame Retardant, Non Corrosive)
- LSF 0H (Low smoke in fume, zero halogen)
- recommended for EMC-applications

REMARKS

- RoHS compliant
- compliant with 2014/35/EU Directive ("Low Voltage Directive") CE
- Alternatively available: FLAME-JZ-CHö FRNC with increased oil resistance
- Special versions, other dimensions, cross-sections, core and sheath colors are available on request

PRODUCT DETAILS

DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5
Core insulation	special halogen-free compound
Core identification	acc. to DIN VDE 0293 black cores with white numerals with GNYE from 3 cores
Stranding	stranded in layers
Overall shield	copper braid tinned; coverage approx. 85 %
Outer sheath material	special halogen-free compound
Sheath colour	grey, RAL 7001

ELECTRICAL PROPERTIES

Rated voltage AC IEC	U _o /U: 300/500 V
Testing voltage	3 kV
Conductor resistance	acc. to IEC 60228 cl. 5
Insulation resistance	min. 20 MΩ x km
Current carrying capacity	acc. to DIN VDE, see technical Guidelines

MECHANICAL & DYNAMIC PROPERTIES

Min. bending radius fixed	6 x d
Min. bending radius moved	15 x d

THERMAL PROPERTIES

Operat. temp. fixed min./max. [°C]	-40 °C / +70 °C
Operat. temp. moved min/max [°C]	- 5 °C / +70 °C



PROPERTIES IN CASE OF FIRE

Halogen-free	halogen-free acc. to IEC 60754-1
Smoke density	acc. to IEC 61034-1 and IEC 61034-2
Corrodibility	acc. to IEC 60754-2
Burning behavior	halogen-free and flame-retardant acc. to IEC 60332-1-2 and IEC 60332-3-24 Kat. C
CPR - declared Performance	Dca - s2, d2, a1

STANDARDS & APPROVALS

Standard	similar to EN 50525-2-51
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ITEM OVERVIEW

FLAME-JZ/OZ-CH FRNC

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1003616	2 X 0,5	5,7	36,0	44,0
1002754	3 G 0,5	6,0	43,0	52,0
1002755	4 G 0,5	6,3	49,0	62,0
1003990	4 X 0,5	6,3	49,0	62,0
1002126	5 G 0,5	7,0	57,0	75,0
1002923	7 G 0,5	7,5	69,0	98,0
1003617	12 G 0,5	9,9	104,0	160,0
1003086	18 G 0,5	11,5	141,0	222,0
1003618	25 G 0,5	13,4	211,0	311,0
1003394	34 G 0,5	15,4	287,0	398,0
1003395	42 G 0,5	17,0	360,0	450,0
1002753	2 X 0,75	6,0	43,0	58,0
1002872	3 G 0,75	6,3	52,0	68,0
1003188	4 G 0,75	7,0	61,0	78,0
1002848	5 G 0,75	7,5	72,0	97,0
1003027	7 G 0,75	8,3	89,0	129,0
1003619	12 G 0,75	10,6	138,0	203,0
1003061	18 G 0,75	12,7	211,0	290,0
1003229	25 G 0,75	14,8	280,0	413,0
1004106	34 G 0,75	16,7	370,0	510,0
1003177	2 X 1	6,3	51,0	66,0
1002832	3 G 1	6,8	62,0	80,0
1005331	4 X 1	8,9	74,0	100,0
1003204	4 G 1	7,3	74,0	100,0
1001822	5 G 1	8,0	88,0	130,0
1001845	7 G 1	8,7	112,0	155,0
1004105	10 G 1	11,1	158,0	216,0
1002968	12 G 1	11,4	185,0	245,0
1003620	18 G 1	13,6	268,0	368,0
1003621	25 G 1	15,9	354,0	493,0
1003518	2 X 1,5	7,0	65,0	88,0
1001696	3 G 1,5	7,3	82,0	99,0
1000656	4 G 1,5	8,2	100,0	125,0
1003622	5 G 1,5	8,9	119,0	158,0
1001101	6 G 1,5	9,6	136,0	160,0
1003192	7 G 1,5	9,8	154,0	210,0
1001104	8 G 1,5	11,2	191,0	215,0
1001106	10 G 1,5	12,1	215,0	255,0
1003194	12 G 1,5	12,8	268,0	340,0
1003623	18 G 1,5	15,4	373,0	480,0
1003624	25 G 1,5	17,7	530,0	668,0
1003121	2 X 2,5	8,3	96,0	121,0
1003024	3 G 2,5	8,9	118,0	157,0
1002672	4 G 2,5	9,9	147,0	196,0
1003258	5 G 2,5	10,8	176,0	235,0
1003625	7 G 2,5	11,9	253,0	311,0
1003626	12 G 2,5	16,0	385,0	500,0
1003191	3 G 4	10,5	178,0	222,0
1002480	4 G 4	11,6	248,0	291,0
1002924	5 G 4	12,9	269,0	361,0
1003627	7 G 4	14,4	371,0	468,0



FLAME-JZ/OZ-CH FRNC

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1003628	3 G 6	12,3	240,0	318,0
1003115	4 G 6	13,8	343,0	437,0
1000657	5 G 6	15,4	441,0	510,0
1003629	7 G 6	17,0	510,0	670,0
1003630	3 G 10	15,6	350,0	495,0
1002590	4 G 10	17,5	535,0	685,0
1003631	5 G 10	19,9	592,0	824,0
1003632	7 G 10	21,4	820,0	1.200,0
1003117	4 G 16	20,7	800,0	972,0
1003633	5 G 16	23,2	1.050,0	1.293,0
1003634	7 G 16	24,8	1.470,0	1.730,0
1003114	4 G 25	26,5	1.075,0	1.591,0
1003635	5 G 25	28,8	1.446,0	1.971,0
1003072	4 G 35	29,8	1.690,0	2.264,0
1003636	5 G 35	33,5	1.930,0	2.837,0
1003637	4 G 50	35,9	2.315,0	3.162,0
1003638	5 G 50	40,0	2.694,0	4.122,0
1003639	4 G 70	41,0	3.020,0	4.259,0
1003640	5 G 70	46,3	3.696,0	5.861,0
1003641	4 G 95	48,9	4.013,0	6.270,0
1003642	5 G 95	53,0	5.016,0	7.840,0
1003643	4 G 120	54,0	5.067,0	7.981,0