



300/500V, 0,6/1kV, shielded, transparent, CPR Eca



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 specified types of oil
- additional mechanical protection by inner sheath
- EMC compliant shielding



PRODUCT DETAILS

DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5
Core insulation	PVC
Core identification	coloured: up to 5 cores acc. to DIN VDE 0293-308; from 6 cores TKD colour code (see technical guideline); G: with GNYE
Stranding	stranded in layers
Inner sheath material	PVC
Overall shield	copper braid tinned, coverage approx. 85 %
Outer sheath material	PVC
Sheath colour	transparent

ELECTRICAL PROPERTIES

Rated voltage AC IEC	U _o /U: up to 16mm ² 300/500V, from 25mm ² 0,6/1kV
Testing voltage	4 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 / +80 °C
Operat. temp. moved min/max [°C]	-15 °C / +70 °C
Temp. at conductor in operation max [°C]	+70 °C in operation; +150 °C in case of short-circuit

PROPERTIES IN CASE OF FIRE

Burning behavior

self-extinguishing & flame-retardant acc.to IEC 60332-1

STANDARDS & APPROVALS

Standard

similar to EN 50525-2-5| 0,6/1 kV-type: with insulation thickness for 1 kV

ITEM OVERVIEW

ÖPVC-JB/OB-YCY 300/500 V

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1000982	2 X 0,5	6,9	41,0	74,0
1000395	3 G 0,5	7,3	46,0	78,0
1000403	4 G 0,5	7,9	55,0	95,0
1000412	5 G 0,5	8,4	66,0	111,0
1003378	7 G 0,5	9,1	81,0	140,0
1003379	12 G 0,5	11,5	139,0	227,0
1000985	2 X 0,75	7,5	46,0	77,0
1000396	3 G 0,75	7,9	58,0	91,0
1000991	3 X 0,75	7,9	58,0	91,0
1000404	4 G 0,75	8,4	64,0	109,0
1000413	5 G 0,75	9,1	77,0	136,0
1000793	6 G 0,75	9,8	86,0	167,0
1003380	7 G 0,75	9,7	102,0	174,0
1000794	8 G 0,75	11,2	104,0	214,0
1003381	12 G 0,75	12,7	177,0	270,0
1000987	2 X 1	7,9	56,0	91,0
1000397	3 G 1	8,2	65,0	107,0
1000405	4 G 1	8,8	78,0	137,0
1000644	5 G 1	9,6	89,0	164,0
1003382	7 G 1	10,4	113,0	199,0
1003383	12 G 1	13,5	188,0	330,0
1000988	2 X 1,5	8,7	65,0	115,0
1000398	3 G 1,5	9,0	83,0	137,0
1000406	4 G 1,5	9,7	100,0	173,0
1000414	5 G 1,5	10,6	125,0	210,0
1003384	7 G 1,5	11,4	196,0	282,0
1003385	12 G 1,5	15,2	280,0	433,0
1000989	2 X 2,5	10,0	112,0	160,0
1000401	3 G 2,5	10,5	146,0	210,0
1000407	4 G 2,5	11,5	167,0	267,0
1000420	5 G 2,5	12,5	200,0	319,0
1003386	7 G 2,5	14,0	288,0	395,0
1003387	12 G 2,5	18,2	477,0	640,0
1001861	4 G 4	13,7	237,0	369,0
1000421	5 G 4	15,3	280,0	446,0
1003388	7 G 4	16,6	388,0	556,0
1000409	4 G 6	16,1	318,0	503,0
1000422	5 G 6	17,3	441,0	611,0
1003389	7 G 6	18,8	505,0	798,0
1001862	4 G 10	19,4	558,0	764,0
1000417	5 G 10	21,8	714,0	943,0
1001879	4 G 16	22,6	804,0	1.080,0
1000418	5 G 16	25,2	1.053,0	1.325,0

ÖPVC-JB/OB-YCY 0,6/1 kV

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1001880	4 G 25	28,9	1.289,0	1.624,0
1001687	5 G 25	31,8	1.446,0	2.270,0
1001768	4 G 35	32,2	1.680,0	2.135,0
1001776	5 G 35	36,4	1.975,0	2.771,0

ÖPVC-JB/OB-YCY 0,6/1 kV

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1000408	4 G 50	38,8	2.342,0	3.362,0
1000410	4 G 70	43,7	3.103,0	4.320,0
1000411	4 G 95	50,4	4.055,0	5.849,0
1001604	4 G 120	56,8	5.225,0	7.509,0
1003392	4 G 150	62,2	6.300,0	7.800,0
1003393	4 G 185	67,8	7.753,0	9.866,0