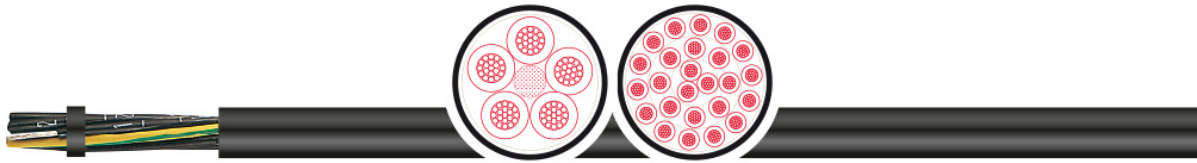




300/500V, unshielded, cold resistant -60°C

## TKD

an INFINIT® brand



### APPLICATION

as UV- and cold resistant power, control and connecting cable in electrical facilities (e.g. in plant and machine building, in heating and air-conditioning technology or in frozen goods plants, cold stores), 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 but no laying underground



### SPECIAL FEATURES

- largely resistant to acids, bases and specified types of oil
- increased cold resistant acc. to IEC 60811-1-4

### PRODUCT DETAILS

#### DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5
Core insulation	PVC, cold resistant
Core identification	acc. to DIN VDE 0293 black cores with white numerals with or without GNYE
Stranding	stranded in layers
Outer sheath material	PVC, cold resistant
Sheath colour	black, RAL 9005

#### ELECTRICAL PROPERTIES

Rated voltage AC IEC	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

#### MECHANICAL & DYNAMIC PROPERTIES

Min. bending radius fixed	4 x d
Min. bending radius moved	15 x d

#### THERMAL PROPERTIES

Operat. temp. fixed min./max. [°C]	-60 °C / +80 °C
Operat. temp. moved min/max [°C]	-40 °C / +70 °C
Temp. at conductor in operation max [°C]	+70 °C in operation; +140 °C in case of short-circuit

#### PROPERTIES IN CASE OF FIRE

Burning behavior	self-extinguishing & flame-retardant acc.to IEC 60332-1
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## STANDARDS &amp; APPROVALS

Standard

similar to EN 50525-2-51

## ITEM OVERVIEW

## ÖPVC ARCTIC +UV -60 °C 300/500 V

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1005391	2 X 0,5	4,8	9,6	34,0
1005392	3 G 0,5	5,1	14,4	41,0
1005433	3 X 0,5	5,1	14,4	41,0
1005434	4 G 0,5	5,5	19,2	51,0
1005435	4 X 0,5	5,5	19,2	51,0
1005436	5 G 0,5	6,3	24,0	63,0
1005437	5 X 0,5	6,3	24,0	63,0
1005438	7 G 0,5	6,8	34,0	79,0
1005439	7 X 0,5	6,8	34,0	79,0
1005440	12 G 0,5	9,1	58,0	137,0
1005441	14 G 0,5	9,5	67,0	155,0
1005442	18 G 0,5	10,8	86,0	198,0
1005443	25 G 0,5	12,5	120,0	270,0
1005444	34 G 0,5	14,9	163,0	378,0
1005445	2 X 0,75	5,2	15,0	43,0
1005446	3 G 0,75	5,5	22,0	52,0
1005447	3 X 0,75	5,5	22,0	52,0
1005448	4 G 0,75	6,2	29,0	65,0
1005449	4 X 0,75	6,2	29,0	65,0
1005450	5 G 0,75	6,8	36,0	81,0
1005451	5 X 0,75	6,8	36,0	81,0
1005452	7 G 0,75	7,6	50,0	102,0
1005453	7 X 0,75	7,6	50,0	102,0
1005454	12 G 0,75	9,9	86,0	179,0
1005455	18 G 0,75	12,0	130,0	260,0
1005456	25 G 0,75	13,9	180,0	354,0
1005457	34 G 0,75	16,5	245,0	492,0
1005458	2 X 1	5,5	19,0	50,0
1005459	3 G 1	6,1	29,0	63,0
1005460	3 X 1	6,1	29,0	63,0
1005461	4 G 1	6,6	38,0	78,0
1005462	4 X 1	6,6	38,0	78,0
1005463	5 G 1	7,2	48,0	97,0
1005464	5 X 1	7,2	48,0	97,0
1005465	7 G 1	8,0	67,0	124,0
1005466	7 X 1	8,0	67,0	124,0
1005467	12 G 1	10,7	115,0	217,0
1005468	18 G 1	12,7	173,0	315,0
1005469	25 G 1	14,9	240,0	431,0
1005470	34 G 1	17,7	326,0	598,0
1005471	2 X 1,5	6,3	29,0	67,0
1005472	3 G 1,5	6,7	43,0	84,0
1005473	3 X 1,5	6,7	43,0	84,0
1005474	4 G 1,5	7,5	58,0	106,0
1005475	4 X 1,5	7,5	58,0	106,0
1005476	5 G 1,5	8,2	72,0	131,0
1005477	5 X 1,5	8,2	72,0	131,0
1005478	7 G 1,5	9,1	101,0	169,0
1005479	7 X 1,5	9,1	101,0	169,0
1005480	12 G 1,5	12,1	173,0	295,0
1005481	18 G 1,5	14,4	259,0	431,0
1005482	25 G 1,5	16,8	360,0	591,0
1005483	34 G 1,5	20,0	490,0	819,0
1005484	2 X 2,5	7,7	48,0	103,0
1005485	3 G 2,5	8,2	72,0	130,0
1005486	3 X 2,5	8,2	72,0	130,0
1005487	4 G 2,5	9,1	96,0	165,0
1005488	5 G 2,5	10,0	120,0	206,0
1005489	7 G 2,5	11,1	168,0	266,0
1005490	12 G 2,5	15,0	288,0	468,0
1005491	18 G 2,5	17,9	432,0	685,0
1005492	25 G 2,5	20,9	600,0	941,0
1005493	34 G 2,5	24,7	816,0	1.308,0

**ÖPVC ARCTIC +UV -60 °C 300/500 V**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1005494	2 X 4	9,2	77,0	152,0
1005495	3 G 4	9,7	115,0	195,0
1005496	4 G 4	10,9	154,0	248,0
1005497	5 G 4	12,1	192,0	310,0
1005498	7 G 4	13,4	269,0	403,0
1005499	2 X 6	10,8	115,0	220,0
1005500	3 G 6	11,5	173,0	283,0
1005501	4 G 6	12,8	230,0	360,0
1005502	5 G 6	14,3	288,0	451,0
1005503	7 G 6	15,9	403,0	588,0
1005504	2 X 10	13,6	192,0	353,0
1005505	3 G 10	14,7	288,0	456,0
1005506	4 G 10	16,3	384,0	583,0
1005507	5 G 10	18,2	480,0	731,0
1005508	7 G 10	20,0	672,0	955,0
1005509	3 G 16	17,0	461,0	671,0
1005510	4 G 16	18,8	614,0	861,0
1005511	5 G 16	21,2	768,0	1.080,0
1005512	7 G 16	23,6	1.075,0	1.420,0
1005513	4 G 25	23,7	960,0	1.342,0
1005514	5 G 25	26,6	1.200,0	1.683,0
1005515	4 G 35	26,9	1.344,0	1.812,0
1005516	5 G 35	30,2	1.680,0	2.270,0
1005517	3 G 50	31,1	1.440,0	2.166,0
1005518	4 G 50	32,7	1.920,0	2.746,0
1005519	4 G 70	36,6	2.688,0	3.724,0