



300/500V, unshielded

**APPLICATION**

as power, control and connecting cable in electrical systems and hand-held power tools, for fixed installation and flexible applications with free movement without tensile stress and without forced routing. Suitable for use in dry, humid and wet rooms. Outdoor use within the temperature range, but no laying underground.

**SPECIAL FEATURES**

- increased oil-resistant special two-layer outer sheath, resistant to acids, alkalis, solvents, hydrolysis, microbes, fats, etc.
- UV-resistant according to EN ISO 4892-2-2006, method A (colour change permitted)
- Ozone-resistant acc. to EN 50396 method B
- increased abrasion and cut resistance, notch-resistant, tear-resistant
- integrated wear indicator - damage to the grey outer jacket is visible through the black inner jacket underneath.
- more safety and efficiency in industrial and manual stripping

PRODUCT DETAILS**DESIGN**

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5
Core insulation	PVC
Core identification	acc. to DIN VDE 0293 black cores with white numerals, G: with GNYE
Stranding	stranded in layers
Outer sheath material	YPUR - two-layer jacket
Outer sheath properties	PVC functional layer, black, crotches filled extruded under PUR outer jacket
Sheath colour	grey RAL 7001

ELECTRICAL PROPERTIES

Rated voltage AC IEC	U ₀ /U: 300/500 V
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	4 x d
Min. bending radius moved	12,5 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 and flame-retardant acc.to IEC 60332-1
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STANDARDS & APPROVALS

Standard	similar to EN 50525-2-51
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ITEM OVERVIEW**KAWEFLEX CONTROL YPUR**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1005201	2 X 0,5	4,8	9,6	32,0
1005202	3 G 0,5	5,1	14,4	39,0
1005203	3 X 0,5	5,1	14,4	39,0
1005204	4 G 0,5	5,5	19,2	49,0
1005205	4 X 0,5	5,5	19,2	49,0
1005206	5 G 0,5	6,3	24,0	59,0
1005207	5 X 0,5	6,3	24,0	59,0
1005208	7 G 0,5	6,8	33,6	73,0
1005209	7 X 0,5	6,8	33,6	73,0
1005210	10 G 0,5	8,6	48,0	116,0
1005211	12 G 0,5	9,1	57,6	129,0
1005212	18 G 0,5	10,8	86,4	184,0
1005213	25 G 0,5	12,5	120,0	256,0
1005214	2 X 0,75	5,2	14,4	42,0
1005215	3 G 0,75	5,5	21,6	51,0
1005216	3 X 0,75	5,5	21,6	51,0
1005217	4 G 0,75	6,2	28,8	62,0
1005218	4 X 0,75	6,2	28,8	62,0
1005219	5 G 0,75	6,8	36,0	75,0
1005220	5 X 0,75	6,8	36,0	75,0
1005221	7 G 0,75	7,6	50,4	95,0
1005222	7 X 0,75	7,6	50,4	95,0
1005223	10 G 0,75	9,6	72,0	153,0
1005224	12 G 0,75	9,9	86,4	170,0
1005225	18 G 0,75	12,0	129,6	245,0
1005226	25 G 0,75	13,9	180,0	340,0
1005227	2 X 1	5,5	19,2	49,0
1005228	3 G 1	6,1	28,8	60,0
1005229	3 X 1	6,1	28,8	60,0
1005230	4 G 1	6,6	38,4	74,0
1005231	4 X 1	6,6	38,4	74,0
1005232	5 G 1	7,2	48,0	90,0
1005233	5 X 1	7,2	48,0	90,0
1005234	7 G 1	8,0	67,2	118,0
1005235	7 X 1	8,0	67,2	118,0
1005236	10 G 1	10,4	96,0	184,0
1005237	12 G 1	10,7	115,0	204,0
1005238	18 G 1	12,7	172,8	303,0
1005239	25 G 1	14,9	240,0	412,0
1005240	2 X 1,5	6,3	28,8	64,0
1005241	3 G 1,5	6,7	43,2	81,0
1005242	3 X 1,5	6,7	43,2	81,0
1005243	4 G 1,5	7,5	58,0	99,0
1005244	4 X 1,5	7,5	58,0	99,0
1005245	5 G 1,5	8,2	72,0	125,0
1005246	5 X 1,5	8,2	72,0	125,0
1005247	7 G 1,5	9,1	100,8	161,0
1005248	7 X 1,5	9,1	100,8	161,0
1005249	12 G 1,5	12,1	172,8	286,0
1005250	18 G 1,5	14,4	259,2	419,0
1005251	25 G 1,5	16,8	360,0	580,0

KAWEFLEX CONTROL YPUR

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
1005252	3 G 2,5	8,2	72,0	125,0
1005253	4 G 2,5	9,1	96,0	158,0
1005254	5 G 2,5	10,0	120,0	198,0
1005255	7 G 2,5	11,1	168,0	259,0
1005256	12 G 2,5	15,0	288,0	454,0
1005257	3 G 4	9,7	115,2	188,0
1005258	4 G 4	10,9	153,6	241,0
1005259	5 G 4	12,1	192,0	302,0
1005260	7 G 4	13,4	268,8	394,0
1005261	4 G 6	12,8	230,4	356,0
1005262	5 G 6	14,3	288,0	443,0
1005263	7 G 6	15,9	403,2	579,0
1005264	4 G 10	16,3	384,0	571,0
1005265	5 G 10	18,2	480,0	714,0
1005266	7 G 10	20,0	672,0	935,0
1005267	4 G 16	18,8	614,4	843,0