



conductor material:	bare copper, fine wire conductors, according to VDE 0295 cl.5/ IEC 60228 cl. 5
core insulation:	as of 2 x 0,75 up to 5 x 6qmm PUR (special Polyurethane) as of 10mm ² and higher EPR (Ethylene Propylene Rubber)
cores:	stranded in layers
outer sheath:	special polyurethane
sheath colour:	orange ~ RAL 2004
bending radius fixed:	5 x D
bending radius moved:	10 x D
operating temperature:	≤ 1mm ² : 300 V/ 500 V ≥ 1,5mm ² : 600 V/ 1000V
test voltage:	≤ 1mm ² : 2000 V/ 50Hz ≥ 1,5mm ² : 3500 V/ 50Hz
insulation resistance:	min. 20MΩ x km
temperature range:	-40°C up to +80°C moved, fix installation -50°C up to + 80°C
core identification:	acc. to VDE 0293-308 up to 5 wires coloured, from 6 cores black with white numbers and one core gn/ye

application:

KENPUR® 500 is mainly used for mobile installations without tensile stress, which are subject to rough environmental influences (not suitable for cable drag and drag chain operation).

Typical applications areas are steel and rolling mills, machine and plant construction, public transportation services, mechanical workshops and equipment, construction industry, mining and tunnel construction, construction sites, flexible energy supply for mobile and temporary events. These robust and flexible cables are used for electrical tools such as drills and hand-held circular saws, as well as for portable motors and machinery in agriculture, at building sites, docks and refrigeration plants and heaters, provided there is no danger of contact with hot parts or by radiation of heat.

KENPUR® 500 can be used up to water depth of 200m in case of fixed installation corresponding to the cable (fresh- and seawater up to +30°C). The cable installation must be carried out with the accessories appropriate for the cable and the applications. For other underwater applications or deviations KENEX must be consulted.

Other colours on request!

Production of short lengths also possible!

KENPUR 500® is also available as spiral cable!

The products and information presented here are for technical calculation only.

They are subject to technical progress and in no way represent the ability of shipment.

Outer diameters and cable weights are approximately.

version 08.12.2020

resistance / features:

<ul style="list-style-type: none"> - halogen free: EN 60754-1 / IEC 60754-1 - good weather conditions resistance - good fresh water and seawater resistance - good breaking elongation / flexibility - good pressure and overrun resistance - good shake and vibration resistance - abrasion resistance acc. DIN ISO 4649-A - good notch resistance - good cut, tear and tear propagation resistance DIN 53504-S2 /DIN ISO 34-1B - materials used for production are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers - for indoor and outdoor use, not suitable for buried installation 	<ul style="list-style-type: none"> - normally with meter marking - ozone resistant acc. VDE 0472 part 805 - hydrolysis resistance: EN 50396-10.2 - microbe and rotting resistance VDE 0472 Part 704 - UV-resistant acc. ISO 4892-2 part A - oil resistant: EN 60811-1-2 - halogen free: EN 60754-1 and IEC 60754-2 - current carrying capacity (generally) according to VDE 0298 part 2 and 4 - conditionally acid and leach resistance, in individual and critical cases the resistance of the material must be tested. This applies in particular to hydraulic-, bio- and synthetic-oils and acids and leach as well.
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KENEX article number	Number of cores X cross section mm ²	G-TIN 13	Ampacity Ampere in air at 30°C	Outer diameter ca. mm	Copper Weight kg/km	Cable Weight kg/km
00102075	KENPUR 500 2 x 0,75 OB	4251605102132	6	6,1	14,4	44
00103075	KENPUR 500 3 x 0,75 JB	4251605102187	6	6,4	21,6	55
00104075	KENPUR 500 4 x 0,75 JB	4251605102224	6	7,0	28,8	67
00105075	KENPUR 500 5 x 0,75 JB	4251605105386	6	7,8	36	90
00104075	KENPUR 500 7 x 0,75 JZ	4251605114180	6	9,0	50,4	157
00105075	KENPUR 500 12 x 0,75 JZ	4251605109261	6	11,5	86,4	185
00102100	KENPUR 500 2 x 1,0 OB	4251605102149	10	6,5	19,2	50
00103100	KENPUR 500 3 x 1,0 JB	4251605102194	10	6,9	28,8	61
00104100	KENPUR 500 4 x 1,0 JB	4251605102231	10	7,5	38,4	87
00105100	KENPUR 500 5 x 1,0 JB	4251605105195	10	8,4	48	106
00107100	KENPUR 500 7 x 1,0 JZ	4251605102347	10	9,9	67,2	160
00112100	KENPUR 500 12 x 1,0 JZ	4251605102095	10	12,1	115,2	240
00116100	KENPUR 500 16 x 1,0 JZ	4251605104341	10	13,6	153,6	310
00120100	KENPUR 500 20 x 1,0 JZ	4251605114302	10	15,1	192	390
00125100	KENPUR 500 25 x 1,0 JZ	4251605104358	10	17,3	240	450
00130100	KENPUR 500 30 x 1,0 JZ	4251605102163	10	18,0	288	520
00102150	KENPUR 500 2 x 1,5 OB	4251605102156	16	7,6	28,8	70
00103150	KENPUR 500 3 x 1,5 JB	4251605102200	16	8,0	43,2	95
00104150	KENPUR 500 4 x 1,5 JB	4251605102248	18	8,9	57,6	120
00105150	KENPUR 500 5 x 1,5 JB	4251605102309	18	10,0	72	164
00107150	KENPUR 500 7 x 1,5 JZ	4251605102354	18	11,7	100,8	210
00112150	KENPUR 500 12 x 1,5 JZ	4251605102101	18	14,4	172,8	340
00116150	KENPUR 500 16 x 1,5 JZ	4251605114319	18	16,2	234,4	440
00120150	KENPUR 500 20 x 1,5 JZ	4251605102118	18	17,9	288	560
00125150	KENPUR 500 25 x 1,5 JZ	4251605114326	18	20,0	360	620
00130150	KENPUR 500 30 x 1,5 JZ	4251605102170	18	21,7	432	780
00141150	KENPUR 500 41 x 1,5 JZ	4251605114333	18	26,0	590,4	1060

KENEX article number	Number of cores X cross section mm ²	G-TIN 13	Ampacity in air at 30°C	Outer diameter ca. mm	Copper Weight kg/km	Cable Weight kg/km
00102250	KENPUR 500 2 x 2,5 OB	4251605113268	20	8,8	48	110
00103250	KENPUR 500 3 x 2,5 JB	4251605102217	20	9,3	72	150
00104250	KENPUR 500 4 x 2,5 JB	4251605105300	26	10,6	96	180
00105250	KENPUR 500 5 x 2,5 JB	4251605102316	26	11,6	120	240
00107250	KENPUR 500 7 x 2,5 JZ	4251605114258	26	13,6	168	340
00112250	KENPUR 500 12 x 2,5 JZ	4251605114265	26	17,1	288	520
00116250	KENPUR 500 16 x 2,5 JZ	4251605114272	26	19,2	383	680
00120250	KENPUR 500 20 x 2,5 JZ	4251605102125	26	21,4	480	860
00102400	KENPUR 500 2 x 4 OB	4251605114234	25	10,2	77	160
00103400	KENPUR 500 3 x 4 JB	4251605114241	25	10,8	115	220
00104400	KENPUR 500 4 x 4 JB	4251605102286	34	12,0	154	280
00105400	KENPUR 500 5 x 4 JB	4251605102323	34	13,4	192	350
00107400	KENPUR 500 7 x 4 JZ	4251605114289	34	15,9	269	470
00104600	KENPUR 500 4 x 6 JB	4251605102293	44	13,9	230	400
00105600	KENPUR 500 5 x 6 JB	4251605102330	44	15,5	288	500
00107600	KENPUR 500 7 x 6 JZ	4251605104587	44	18,6	403	700
00141000	KENPUR 500 4 x 10 JB	4251605102255	61	20,5	384	640
00151000	KENPUR 500 5 x 10 JB	4251605102897	61	22,6	480	800
00141600	KENPUR 500 4 x 16 JB	4251605102262	82	24,5	614	920
00151600	KENPUR 500 5 x 16 JB	4251605102842	82	27,2	768	1180
00142500	KENPUR 500 4 x 25 JB	4251605102279	108	29,1	960	1370
00152500	KENPUR 500 5 x 25 JB	4251605105317	108	32,0	1200	1670
00143500	KENPUR 500 4 x 35 JB	4251605105324	135	32,5	1344	1840
00153500	KENPUR 500 5 x 35 JB	4251605102859	135	35,8	1680	2310
00145000	KENPUR 500 4 x 50 JB	4251605103870	168	38,1	1920	2570
00155000	KENPUR 500 5 x 50 JB	4251605105331	168	42,3	2400	3290
00147000	KENPUR 500 4 x 70 JB	4251605105348	207	43,2	2688	3590
00157000	KENPUR 500 5 x 70 JB	4251605105362	207	48,3	3360	4480
00149500	KENPUR 500 4 x 95 JB	4251605105379	250	49,7	3648	4850
00159500	KENPUR 500 5 x 95 JB	4251605114296	250	55,5	4560	6060
00141200	KENPUR 500 4 x 120 JB	4251605105577	292	55,9	4608	6000
00151200	KENPUR 500 5 x 120 JB	4251605114340	292	61,1	5790	8200
00131500	KENPUR 500 3 x 150 JB	4251605114227	335	55,3	4320	6390
00141500	KENPUR 500 4 x 150 JB	4251605114203	335	61,4	5760	7680
00151500	KENPUR 500 5 x 150 JB	4251605114111	335	66,0	7200	9000