



**conductor material:** bare copper, fine wire conductors, bunch stranded to VDE 0295 cl.5/ IEC 60228 cl. 5  
**insulation:** EPR (Ethylen Propylen)  
**cores:** cores stranded in layers  
**outer sheath:** full polyurethane HFFR (halogen free and flame retardant)  
**sheath colour:** orange (RAL 2004), partly with meter marking, change-over in 2012

**bending radius fixed:** 5 x D  
**bending radius moved:** 10 x D  
**operating temperature:** ≤ 1qmm: 300 V/ 500 V  
≥ 1,5qmm: 600 V/ 1000V  
**test voltage:** ≤ 1qmm: 2000 V/ 50Hz  
≥ 1,5qmm: 3500 V/ 50Hz  
**insulation resistance:** min. 20MΩ x km  
**temperature range:** -40 up to +80°C moved (up to +100°C for short periods)  
**core identification:** acc. to VDE 0293-308 up to 5 wires coloured,  
from 6 wires black with white numerals with gn/ye  
**flame retardant:** acc. to IEC 60332-1

**application:**

The application of KENPUR® 500 HFFR is very multifunctional with especially well properties and warranted overrun resistance. Such as for great demanded on hand sets like polisher, manual power screwdriver, countersink and drill machine. Due to the high mechanical stresses of KENPUR® 500 HFFR is best suitable for outdoor use. General operation areas are: steel work, rolling mill, machinery and industrial plant equipment, painting line, transport company, mechanical factory, food industry, building site, mining und tunnel building.

*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 are approximately.*

**resistance / features:**

<ul style="list-style-type: none"> <li>- halogen free acc. to EN 50267-2-1 addition C (IEC 60754-1)</li> <li>- good weathering resistance</li> <li>- good service water and seawater resistance level 2; 100 days</li> <li>- good breaking elongation/flexibility</li> <li>- good pressure and overrun resistance</li> <li>- good shake and vibration resistance</li> <li>- abrasion resistance acc. to DIN 53616</li> <li>- suitable for use in food</li> <li>- cut, tear and tear propagation resistance acc. to DIN 53515</li> <li>- the materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers</li> </ul>	<ul style="list-style-type: none"> <li>- radiation resistance up to <math>100 \times 10^6</math> cJ/kg (up to 100 Mrad)</li> <li>- hydrolysis resistance acc. to EN 50396-10.2</li> <li>- microbe and rotting resistance acc. to VDE 0472 Teil 704</li> <li>- oil, fat and wastewater resistance acc. to VDE 0472 part 803/EN50363-10-2</li> <li>- alcohol-free fuels and kerosine resistance</li> <li>- no corrosive gases acc. to EN 50267-2-2 (IEC 60754-2)</li> <li>- ozone resistance acc. to EN 60811-2-1</li> <li>- UV-resistance</li> <li>- notch resistance</li> <li>- conditional acid and leaching resistance</li> <li>- strain relief/breaking load = 20N/qmm (Cu)</li> </ul>
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KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM <sup>2</sup>	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
00102075S	KENPUR 500 HFFR 2 x 0,75	6,1	14,4	44
00103075S	KENPUR 500 HFFR 3 x 0,75	6,4	21,6	55
00104075S	KENPUR 500 HFFR 4 x 0,75	7,0	29,0	67
00105075S	KENPUR 500 HFFR 5 x 0,75	7,8	36,0	90
00102100S	KENPUR 500 HFFR 2 x 1,0	6,5	19,0	50
00103100S	KENPUR 500 HFFR 3 x 1,0	6,9	29,0	61
00104100S	KENPUR 500 HFFR 4 x 1,0	7,5	38,0	87
00105100S	KENPUR 500 HFFR 5 x 1,0	8,4	48,0	106
00107100S	KENPUR 500 HFFR 7 x 1,0	9,9	67,0	160
00112100S	KENPUR 500 HFFR 12 x 1,0	12,1	115,0	240
00116100S	KENPUR 500 HFFR 16 x 1,0	13,6	154,0	310
00120100S	KENPUR 500 HFFR 20 x 1,0	15,1	192,0	390
00125100S	KENPUR 500 HFFR 25 x 1,0	17,3	240,0	450
00130100S	KENPUR 500 HFFR 30 x 1,0	18,0	288,0	520
00102150S	KENPUR 500 HFFR 2 x 1,5	7,6	29,0	70
00103150S	KENPUR 500 HFFR 3 x 1,5	8,0	43,0	95
00104150S	KENPUR 500 HFFR 4 x 1,5	8,9	58,0	120
00105150S	KENPUR 500 HFFR 5 x 1,5	10,0	72,0	164
00107150S	KENPUR 500 HFFR 7 x 1,5	11,7	101,0	210
00112150S	KENPUR 500 HFFR 12 x 1,5	14,4	173,0	340
00116150S	KENPUR 500 HFFR 16 x 1,5	16,2	231,0	440
00120150S	KENPUR 500 HFFR 20 x 1,5	17,9	288,0	560
00125150S	KENPUR 500 HFFR 25 x 1,5	20,0	360,0	620
00130150S	KENPUR 500 HFFR 30 x 1,5	21,7	432,0	780
00141150S	KENPUR 500 HFFR 41 x 1,5	26,0	590,4	1060

*Other cross sections and colours on request!*

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM <sup>2</sup>	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
00102250S	KENPUR 500 HFFR 2 x 2,5	8,8	48,0	110
00103250S	KENPUR 500 HFFR 3 x 2,5	9,3	72,0	150
00104250S	KENPUR 500 HFFR 4 x 2,5	10,6	96,0	180
00105250S	KENPUR 500 HFFR 5 x 2,5	11,6	120,0	240
00107250S	KENPUR 500 HFFR 7 x 2,5	13,6	168,0	340
00112250S	KENPUR 500 HFFR 12 x 2,5	17,1	288,0	520
00116250S	KENPUR 500 HFFR 16 x 2,5	19,2	383,0	680
00120250S	KENPUR 500 HFFR 20 x 2,5	21,4	480,0	860
00102400S	KENPUR 500 HFFR 2 x 4	10,2	76,8	160
00103400S	KENPUR 500 HFFR 3 x 4	10,8	115,0	220
00104400S	KENPUR 500 HFFR 4 x 4	12,0	154,0	280
00105400S	KENPUR 500 HFFR 5 x 4	13,4	192,0	350
00107400S	KENPUR 500 HFFR 7 x 4	15,9	269,0	470
00104600S	KENPUR 500 HFFR 4 x 6	13,9	230,0	400
00105600S	KENPUR 500 HFFR 5 x 6	15,5	288,0	500
00107600S	KENPUR 500 HFFR 7 x 6	18,6	403,0	700
00141000S	KENPUR 500 HFFR 4 x 10	18,2	384,0	640
00151000S	KENPUR 500 HFFR 5 x 10	19,9	480,0	800
00171000S	KENPUR 500 HFFR 7 x 10	24,2	672,0	1020
00141600S	KENPUR 500 HFFR 4 x 16	22,4	614,0	920
00151600S	KENPUR 500 HFFR 5 x 16	24,8	768,0	1180
00142500S	KENPUR 500 HFFR 4 x 25	28,6	960,0	1370
00152500S	KENPUR 500 HFFR 5 x 25	32,7	1200,0	1670
00143500S	KENPUR 500 HFFR 4 x 35	30,5	1344,0	1840
00153500S	KENPUR 500 HFFR 5 x 35	33,0	1680,0	2310
00145000S	KENPUR 500 HFFR 4 x 50	34,0	1920,0	2570
00155000S	KENPUR 500 HFFR 5 x 50	43,8	2400,0	3290
00147000S	KENPUR 500 HFFR 4 x 70	39,0	2688,0	3590
00157000S	KENPUR 500 HFFR 5 x 70	47,0	3360,0	4480
00149500S	KENPUR 500 HFFR 4 x 95	45,0	3648,0	4850
00159500S	KENPUR 500 HFFR 5 x 95	53,0	4560,0	6060
00141200S	KENPUR 500 HFFR 4 x 120	53,0	4608,0	6000

*Other cross sections and colours on request!*