



conductor material:	bare copper, extra fine wire conductors, to VDE 0295 cl.6 col.4/IEC 60228 cl.6
insulation:	special PVC Z 7225
wrapping:	with fleece
inner sheath:	PVC
screen:	one layer of tinned copper wire screening, interwoven with synthetic cross-helix to improve the bending behaviour
sheathing material:	special PVC TM5, to DIN VDE 0281 part 1 and HD 21.1
screen coverage:	min. 80%
core identification:	black cores with continuous white figure imprint to VDE 0293
stranding:	in layers with optimal selected lay length
protective conductor:	green-yellow in the outer layer (3 cores and above)
sheathing colour:	grey RAL 7001
marking:	with meter marking
nominal voltage U₀:	300 V
nominal voltage U:	500 V
test voltage:	4000 V
breakdown voltage:	min. 8000 V
temperature range, moved:	-5 up to +80°C
temperature range, fixed:	-40 up to 80°C
insulation resistance:	min. 20 Mohm x km
min. bending radius, moved:	10 x D
min. bending radius, fixed:	5 x D
radiation resistance:	up to 80x10 ⁶ cJ/kg (up to 80Mrad)

application: This cable is ideal for use in the machine tool industry, in robotics and machine production and where high flexibility is essential. KENFLEX 100 has shown excellent performance in combination with standard cable trays. This type is suitable for flexible use for medium mechanical stresses with free movements. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application. To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

resistance / features:

- PVC self-extinguishing and flame retardant acc. to VDE 0482-332-1-2, DIN EN 60332-1-2/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)	- the materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- oil resistant to DIN/EN 60811-2-1	

*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.*

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM ²	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
0902050A	KENFLEX 100C 2 x 0,50 OZ	7,2	30	90
0903050A	KENFLEX 100C 3 x 0,50	7,5	38	115
0904050A	KENFLEX 100C 4 x 0,50	8,1	48	140
0905050A	KENFLEX 100C 5 x 0,50	8,6	64	168
0907050A	KENFLEX 100C 7 x 0,50	9,9	70	217
0912050A	KENFLEX 100C 12 x 0,50	11,6	100	274
0914050A	KENFLEX 100C 14 x 0,50	12,2	135	332
0916050A	KENFLEX 100C 16 x 0,50	13,0	145	388
0918050A	KENFLEX 100C 18 x 0,50	13,8	154	445
0920050A	KENFLEX 100C 20 x 0,50	14,3	160	497
0921050A	KENFLEX 100C 21 x 0,50	14,8	175	500
0925050A	KENFLEX 100C 25 x 0,50	16,1	240	505
0930050A	KENFLEX 100C 30 x 0,50	16,6	280	515
0934050A	KENFLEX 100C 34 x 0,50	17,7	290	530
0936050A	KENFLEX 100C 36 x 0,50	17,7	300	572
0942050A	KENFLEX 100C 42 x 0,50	19,2	330	605
0950050A	KENFLEX 100C 50 x 0,50	21,2	393	742
0902075A	KENFLEX 100C 2 x 0,75 OZ	7,6	39	105
0903075A	KENFLEX 100C 3 x 0,75	8,1	49	128
0904075A	KENFLEX 100C 4 x 0,75	8,6	60	184
0905075A	KENFLEX 100C 5 x 0,75	9,4	70	200
0907075A	KENFLEX 100C 7 x 0,75	10,5	95	269
0910075A	KENFLEX 100C 10 x 0,75	12,6	110	327
0912075A	KENFLEX 100C 12 x 0,75	12,9	140	366
0914075A	KENFLEX 100C 14 x 0,75	13,4	163	426
0916075A	KENFLEX 100C 16 x 0,75	14,2	187	487
0918075A	KENFLEX 100C 18 x 0,75	14,8	211	547
0920075A	KENFLEX 100C 20 x 0,75	15,5	216	551
0921075A	KENFLEX 100C 21 x 0,75	16,2	272	590
0925075A	KENFLEX 100C 25 x 0,75	17,7	322	600
0930075A	KENFLEX 100C 30 x 0,75	18,2	414	650
0934075A	KENFLEX 100C 34 x 0,75	19,8	473	685
0936075A	KENFLEX 100C 36 x 0,75	19,8	500	720
0942075A	KENFLEX 100C 42 x 0,75	21,0	583	800
0950075A	KENFLEX 100C 50 x 0,75	23,1	695	954

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM ²	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
0902100A	KENFLEX 100C 2 x 1,00 OZ	8,1	50	115
0903100A	KENFLEX 100C 3 x 1,00	8,4	60	142
0904100A	KENFLEX 100C 4 x 1,00	9	73	196
0905100A	KENFLEX 100C 5 x 1,00	9,8	81	271
0907100A	KENFLEX 100C 7 x 1,00	11,2	114	307
0912100A	KENFLEX 100C 12 x 1,00	13,4	186	474
0918100A	KENFLEX 100C 18 x 1,00	15,7	254	622
0925100A	KENFLEX 100C 25 x 1,00	19	365	828
0934100A	KENFLEX 100C 34 x 1,00	21	500	1049
0941100A	KENFLEX 100C 41 x 1,00	22,7	576	1257
0950100A	KENFLEX 100C 50 x 1,00	24,5	681	1437
0965100A	KENFLEX 100C 65 x 1,00	27,7	932	1823
0902150A	KENFLEX 100C 2 x 1,50 OZ	8,6	64	170
0903150A	KENFLEX 100C 3 x 1,50	9	84	203
0904150A	KENFLEX 100C 4 x 1,50	9,8	99	243
0905150A	KENFLEX 100C 5 x 1,50	10,5	120	288
0907150A	KENFLEX 100C 7 x 1,50	12,5	148	403
0912150A	KENFLEX 100C 12 x 1,50	14,8	274	592
0918150A	KENFLEX 100C 18 x 1,50	17,3	386	844
0925150A	KENFLEX 100C 25 x 1,50	21	584	1155
0941150A	KENFLEX 100C 41 x 1,50	24,8	867	1227
0950150A	KENFLEX 100C 50 x 1,50	27,3	970	1445
0961150A	KENFLEX 100C 61 x 1,50	29,8	1028	1724
0903250A	KENFLEX 100C 3 x 2,50	10,8	140	215
0904250A	KENFLEX 100C 4 x 2,50	11,5	159	264
0905250A	KENFLEX 100C 5 x 2,50	12,9	194	344
0907250A	KENFLEX 100C 7 x 2,50	15,1	234	410
0912250A	KENFLEX 100C 12 x 2,50	18,4	390	721
0903400A	KENFLEX 100C 3 x 4,00	13	178	292
0904400A	KENFLEX 100C 4 x 4,00	14,2	222	372
0905400A	KENFLEX 100C 5 x 4,00	15,6	328	448
0904600A	KENFLEX 100C 4 x 6,00	16	305	526
0905600A	KENFLEX 100C 5 x 6,00	17,5	441	632
0941000A	KENFLEX 100C 4 x 10,0	21,2	485	838
0951000A	KENFLEX 100C 5 x 10,0	23,2	610	998
0941600A	KENFLEX 100C 4 x 16,0	24,1	840	1225
0951600A	KENFLEX 100C 5 x 16,0	27	1050	1560
0960150P	KENFLEX 100 60 x 1,50	25,3	864	1885
0961150P	KENFLEX 100 61 x 1,50	26,2	878	1916
0965150P	KENFLEX 100 65 x 1,50	27,2	936	1994