

Cable structure

Conductor:

finely stranded copper conductor, untinned, Class 5
protective-earth conductor: individual-concentric or overall concentric spinning of untinned copper wires

Insulation:

basic material EPR, compound type: 3GI3

Arrangement of protective-earth conductor:

individual-concentric core screening

Core identification:

up to 5 cores coloured,
core colours: black, blue, brown, black, grey

Core arrangement:

three, four of five cores laid-up

Inner sheath:

vulcanized rubber inner sheath,
basic material EPR
compound type: Gm1b

Outer sheath:

basic material: chlorinated rubber
compound type: 5GM5,
colour yellow

Marking:

(year of manufacture) <VDE>
NSSHÖU (number of cores) x (cross-section)

Approvals:

DIN VDE 0250 part 812, MSHA P-189-4,
Gost-R and Rosgortekhnadzor,
Promatomnadzor-Republic of Belarus,
MA-China (special design)

Technical data

Nominal voltage U₀:

0,6 kV

Nominal voltage U:

1 kV

Max. permissible prerating voltage:

in AC systems U₀/U = 0,7/1,2 kV

in DC systems U₀/U = 0,9/1,8 kV

Test voltage:

3 kV

Current-carrying capacity:

acc. to DIN VDE 0298 part 4

Ambient temperature:

flexible operating -25 up to 80°C

fixed installation -40 up to 80°C

Max. permissible operating temperature:

of the conductor 90°C

Short-circuit temperature:

of the conductor 250°C

Tensile load:

up to 15 N/mm²

Min. bending radii:

acc. to DIN VDE 0298 part 3

Resistant to oil:

given to DIN VDE 0473
part 811-2-1, Para. 10
EN 60811-2-1, IEC 60811-2-1

Behaviour in case of fire:

VDE 0482, Teil 332-1-2,
EN 60811-1-2, IEC 60811-1-2

Application:

The cable are suitable for fixed installation and flexible operation as power supply cables to motors, distribution boards, etc., for underground mining applications, for tunnel building applications, for open-cast mining applications, for use in quarries and similar applications. Permitted for applications according to DIN VDE 0118. Unrestricted use outdoors and indoors, resistant to ozone and moisture.

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.



SPEZIALKABEL / SPEZIALLEITUNGEN

NSSHÖU.../3E and .../3E+ST

Rubber-Sheathed flexible cable

acc. to DIN VDE 0250 part 812

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM ²	OPERATING	INDUC-	CURRENT	MAX.	OUTER	COPPER	CABLE
		CAPACI- TANCE PER UNIT LENGTH [μF/KM]	TANCE PER UNIT LENGTH [mH/KM]	CARRYING CAPA- CITY AT 30°C [A]	PERMIS- SIBLE TENSILE FORCE [N]	DIAMETER MIN.-MAX. MM	WEIGHT KG/KM	WEIGHT KG/KM
2930153153	3 x 1,5 + 3 x 1,5/3E	0,17	0,3	23,0	68,0	12,5 - 14,1	106	250
2930253253	3 x 2,5 + 3 x 2,5/3E	0,2	0,3	30,0	113,0	13,6 - 15,2	144	345
2930403403	3 x 4 + 3 x 4/3E	0,21	0,3	41,0	180,0	16,1 - 18,1	211	466
2930603603	3 x 6 + 3 x 6/3E	0,24	0,3	53,0	270,0	17,4 - 19,4	298	560
2930103103	3 x 10 + 3 x 10/3E	0,27	0,3	74,0	450,0	20,3 - 22,3	442	751
2930163163	3 x 16 + 3 x 16/3E	0,31	0,3	99,0	720,0	23,9 - 25,9	682	1100
2930253163	3 x 25 + 3 x 16/3E	0,34	0,3	131,0	1125,0	27,7 - 30,7	970	1565
2930353163	3 x 35 + 3 x 16/3E	0,4	0,3	162,0	1575,0	30,1 - 33,1	1296	1935
2930503153	3 x 50 + 3 x 25/3E	0,4	0,3	202,0	2250,0	36,5 - 39,5	1824	2725
2930703353	3 x 70 + 3 x 35/3E	0,49	0,2	250,0	3150,0	40,6 - 43,6	2515	3725
2930953503	3 x 95 + 3 x 50/3E	0,48	0,2	301,0	4275,0	45,5 - 48,5	3437	4725
2931203703	3 x 120 + 3 x 70/3E	0,52	0,2	352,0	5905,0	51,9 - 55,9	4368	5905
2931503703	3 x 150 + 3 x 70/3E	0,55	0,2	404,0	7275,0	56,2 - 60,2	5342	7275
2931853953	3 x 185 + 3 x 95/3E	0,53	0,2	461,0	9025,0	62,8 - 66,8	6304	9025
2930253253ST	3 x 2,5 + 3 x 2,5/3E + 3 x 1,5ST	0,2	0,3	30,0	113,0	17,1 - 19,1	198	510
2930043043ST	3 x 4 + 3 x 4/3E + 3 x 1,5ST	0,21	0,3	41,0	180,0	17,8 - 19,8	255	552
2930063063ST	3 x 6 + 3 x 6/3E + 3 x 1,5ST	0,24	0,3	53,0	270,0	18,4 - 20,4	341	628
2930103103ST	3 x 10 + 3 x 10/3E + 3 x 2,5ST	0,27	0,3	74,0	450,0	22,1 - 24,1	514	934
2930163163ST	3 x 16 + 3 x 16/3E + 3 x 2,5ST	0,31	0,3	99,0	720,0	23,9 - 25,9	754	1190
2930253163ST	3 x 25 + 3 x 16/3E + 3 x 2,5ST	0,34	0,3	131,0	1125,0	27,7 - 30,7	1042	1640
2930353163ST	3 x 35 + 3 x 16/3E + 3 x 2,5ST	0,4	0,3	162,0	1575,0	30,1 - 33,1	1368	2010
2930503253ST	3 x 50 + 3 x 25/3E + 3 x 2,5ST	0,4	0,3	202,0	2250,0	36,5 - 39,5	1896	2800
2930703353ST	3 x 70 + 3 x 35/3E + 3 x 2,5ST	0,49	0,2	250,0	3150,0	40,6 - 43,6	2587	3800
2930953503ST	3 x 95 + 3 x 50/3E + 3 x 2,5ST	0,48	0,2	301,0	4275,0	45,5 - 48,5	3509	4800
2931203703ST	3 x 120 + 3 x 70/3E + 3 x 2,5ST	0,52	0,2	352,0	5400,0	51,9 - 55,9	4440	5980
2931503703ST	3 x 150 + 3 x 70/3E + 3 x 2,5ST	0,55	0,2	404,0	6750,0	56,2 - 60,2	5414	7140
2931853953ST	3 x 185 + 3 x 95/3E + 3 x 2,5ST	0,53	0,2	461,0	8325,0	62,8 - 66,8	6302	9100