

# Power cable (N)YY-J FR



**Application:** For fixed installation in buildings, outdoors, in the ground and in water.

## Construction and technical data:

<b>Standard:</b>	VDE 0276-603 (with ref. to)
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	class 1, from 25 sqmm class 2
<b>Insulation:</b>	PVC DIV 4
<b>Sheathing material:</b>	PVC DMV5
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	70 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-30 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-5 - +70 °C
<b>Bending radius, fixed installation, multicore:</b>	12 x Ø
<b>Bending radius, fixed installation, singlecore:</b>	15 x Ø
<b>Meter mark:</b>	yes



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.

## (N)YY-J FR

part no.	part name		RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bv</sub> [mm]	Ø [mm]	Cu	G [kg]
014394	03X1.5 RE	RE	12.1	19	27	0.17	124	10.3	43	165
014401	03X2.5 RE	RE	7.41	25	36	0.29	134	11.2	72	209
014404	03X4 RE	RE	4.61	34	47	0.46	164	13	115.2	297
014407	03X6 RE	RE	3.08	43	59	0.69	174	14.1	173	376
014410	03X10 RE	RE	1.83	59	79	1.15	197	15.8	288	526

part no.	part name		RI [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
014413	03X16 RE	RE	1.15	79	103	1.84	223	18.1	461	754
014416	03X25 RM	RM	0.727	106	133	2.87	268	22.3	720	1150
014417	03X25 RM / 16 RE	RM	0.727	106	133	2.87	302	25.2	874	1454
014419	03X35 SM	SMv	0.524	129	159	4.02	294	24.5	1008	1492
014420	03X35 SM / 16 RE	SM	0.524	129	159	4.02	301	25.1	1162	1667
014422	03X50 SM / 25 RM	SMv	0.387	157	188	5.75	338	28.2	1680	2047
014423	03X70 SM / 35 SM	SMv	0.268	199	232	8.05	373	31.1	2352	2827
014424	03X95 SM / 50 SM	SMv	0.193	246	280	10.9	433	36.1	3216	3883
014425	03X120 SM / 70 SM	SMv	0.153	285	318	13.8	461	38.4	4128	4792
014426	03X150 SM / 70 SM	SMv	0.124	326	359	17.2	514	42.8	4992	5740
015555	03X185 SM / 95 SM	SMv	0.0991	374	406	21.3	578	48.2	6240	7399
015166	03X240 SM / 120 SM	SMv	0.0754	445	473	27.6	657	54.7	8064	9590
014395	04X1.5 RE	RE	12.1	19	27	0.17	167	11.1	58	193
015595	01X16 RE	RE	1.15			1.84	153	10.2	154	235
015596	01X25 RM	RM	0.727			2.87	182	12.1	240	349
015597	01X35 RM	RMv	0.524			4.02	198	13.2	336	449
015598	01X50 RM	RMv	0.387			5.75		14.9	480	591
015599	01X70 RM	RMv	0.268			8.05	243	16.2	672	794
015600	01X95 RM	RMv	0.193			10.9	279	18.6	912	1074
014402	04X2.5 RE	RE	7.41	25	36	0.29	151	12	96	247
014405	04X4 RE	RE	4.61	34	47	0.46	178	14.1	154	355
014408	04X6 RE	RE	3.08	43	59	0.69	182	15.2	230.4	452
014411	04X10 RE	RE	1.83	59	79	1.15	205	17.1	384	643
014414	04X16 RE	RE	1.15	79	103	1.84	244	19.3	614.4	905
015134	04X25 RM	RM	0.727	106	133	2.87	305	25.4	960	1507
015502	04X240 SM	SMv	0.0754	445	473	27.6	685	57.1	9216	10867
014396	05X1.5 RE	RE	12.1	19	27	0.17	133	11.9	72	227
014403	05X2.5 RE	RE	7.41	25	36	0.29	163	12.9	120	293
014406	05X4 RE	RE	4.61	34	47	0.46	192	15.2	192	426
014409	05X6 RE	RE	3.08	43	59	0.69	204	18.1	288	628
014412	05X10 RE	RE	1.83	59	79	1.15	229	19.1	480	806
014415	05X16 RE	RE	1.15	79	103	1.84	265	22.1	768	1173
014418	05X25 RM	RM	0.727	106	133	2.87	322	26.8	1200	1758
014421	05X35 RM	RMv	0.524	129	159	4.02	357	29.8	1680	2311
015136	05X50 RM	RMv	0.387	157	188	5.75	384	32	2400	2938
015604	05X70 RM	RMv	0.268	199	232	8.05	487	40.6	3360	4473
015605	05X95 RM	RMv	0.193	246	280	10.4	571	47.6	4560	6149
015606	05X120 RM	RMv	0.153	285	318	13.8	618	51.5	5760	7522
015607	05X185 RM	RMv	0.0991	374	406	21.3	768	64	8880	11609
014397	JZ 07X1.5 RE	RE	12.1	19	27	0.17	160	13.3	115.2	306
014398	JZ 12X1.5 RE	RE	12.1	19	27	0.17	191	15.9	173	417
014399	JZ 16X1.5 RE	RE	12.1	19	27	0.17	209	17.4	230.4	518
014400	JZ 24X1.5 RE	RE	12.1	19	27	0.17	252	21	346	726
015137	JZ 25X2.5 RE	RE	7.41	25	36	0.29	292	24.3	600	1079

RI	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000