

NYJ-J



Anwendung

Energieversorgungskabel zur Verwendung in Erde, im Wasser, im Freien, in Beton, in Innenräumen, Kabelkanälen, für Kraftwerke, Industrie und Schaltanlagen sowie in Ortsnetzen, wenn mechanische Schäden nicht zu erwarten sind.

Die verwendeten Materialien bei der Fertigung sind silikon- und cadmiumfrei und frei von lackbenetzungsstörenden Substanzen.

Nennspannung DC: 1,8 kV

Normen

DIN VDE 0276-603,
flammwidrig nach VDE 0482-332-1-2,
DIN EN 60332-1-2, IEC 60332-1

CE = Das Produkt ist konform zur EG-Niederspannungsrichtlinie 2014/35/EU.

Aufbau

Innenleiter	Kupferleiter ein- oder mehrdrätig, blank nach DIN VDE 0295 Kl. 1 oder Kl. 2, BS 6360 Kl. 1 oder Kl. 2 bzw. IEC 60228 Kl. 1 oder 2
Aderisolierung	Polyvinylchlorid (PVC)
Aderfarbcode	nach DIN VDE 0293 bzw. HD 308 S2, ab 7 Adern schwarz mit fortlaufendem weißem Ziffernaufdruck
Verseilelement	mehradrig in Lagen verseilt
Innenmantelmaterial	Füllmantel
Außenmantelmaterial	Polyvinylchlorid (PVC), schwarz
Beständig gegen	UV Strahlung

Application

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

The materials used are free from silicon and cadmium and free from varnish damaging substances.

Standards

DIN VDE 0276 - 603,
flame retardant acc. to VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

Construction

Inner Conductor	bare copper conductor solid or stranded, to DIN VDE 0295 cl. 1 or cl. 2, BS 6360 cl. 1 or cl. 2 and IEC 60228 cl. 1 or cl. 2
Core Insulation	Polyvinyl chloride (PVC)
Core Color	acc. to HD 308 S2, (7 cores black with continuous white numbers printed)
Stranding Elements	multi cores stranded in layers
Inner Sheath Material	filler sheath
Outer Insulation Material	Polyvinyl chloride (PVC), black
Constant Against	UV-radiation

Techn. Daten

Nennspannung	U ₀ /U: 600 /1000 V
Nennspannung Gleichstrom DC	U ₀ /U: 0 /1800 V
Prüfspannung	4000 V
Biegeradius fest (xD)	15
Betriebstemperatur fest	-5 °C bis 70 °C
Betriebstemperatur beweglich	-5 °C bis 70 °C
Kurzschlussstemperatur	160 °C
Kurzschlussdauer	5 sek.
Brandklassen	Eca

Technical Data

Nominal Voltage	U ₀ /U: 600 /1000 V
Nominal Volatage DC	U ₀ /U: 0 /1800 V
Test Voltage	4000 V
Bending Radius fixed (xD)	15
Operating Temperature solid	-5 °C to 70 °C
Operating Temperature moving	-5 °C to 70 °C
Short Circuit Temperature	160 °C
Short Circuit Duration	5 sek.
Fire Classes	Eca

Art. Nr. Prod. Nr.	Option Option	Abmessung Dimensions	Farbe Color	Gewicht (kg/km) ca. Weight (kg/km) approx.	Außen-Durchmesser (mm) ca. Outer-Diameter (mm) approx.	Strombelastbarkeit Erde (A) Power Load Earth (A)	Strombelastbarkeit Luft (A) Power Load Air (A)	Brandlast (kWh/m) Calorific potential (kWh/m)
01301249	J	1 x 2,5 re	schwarz - black	105,0	7,9	55	35	0,22
01301230	J	1 x 4 re	schwarz - black	115,0	9,0	71	47	0,33
01301217	J	1 x 6 re	schwarz - black	125,0	9,0	90	59	0,33
01301194	J	1 x 10 re	schwarz - black	168,0	10,0	124	81	0,33
01301083	J	1 x 16 re	schwarz - black	230,0	11,0	160	107	0,42
01301221	J	1 x 16 rm	schwarz - black	230,0	11,0	160	1007	0,42
01301085	J	1 x 25 rm	schwarz - black	348,0	13,0	208	144	0,58
01301086	J	1 x 35 rm	schwarz - black	448,0	14,0	250	176	0,67
01301087	J	1 x 50 rm	schwarz - black	586,0	15,0	296	214	0,81
01301088	J	1 x 70 rm	schwarz - black	796,0	17,0	365	270	0,92
01301089	J	1 x 95 rm	schwarz - black	1.068,0	19,0	438	334	1,17
01301090	J	1 x 120 rm	schwarz - black	1.304,0	21,0	501	389	1,31
01301091	J	1 x 150 rm	schwarz - black	1.594,0	22,0	563	446	1,58
01301092	J	1 x 185 rm	schwarz - black	1.954,0	25,0	639	516	
01301093	J	1 x 240 rm	schwarz - black	2.560,0	27,0	746	618	2,21
01301094	J	1 x 300 rm	schwarz - black	3.149,0	31,0	848	717	
01301218	J	1 x 400 rm	schwarz - black	4.003,0	35,0	975	843	
01301229	J	1 x 500 rm	schwarz - black	5.130,0	40,0	1125	994	
01301095	J	3 x 1,5 re	schwarz - black	179,0	11,0	27	20	0,75

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Prod. Nr.	Option	Dimensions	Color	Weight (kg/km) approx.	Outer-Diameter (mm) approx.	Power Load Earth (A)	Power Load Air (A)	Calorific potential (kWh/m)
01301096	J	3 x 2,5 re	schwarz - black	222,0	12,0	36	25	0,83
01301097	J	3 x 4 re	schwarz - black	312,0	14,0	47	34	1,08
01301098	J	3 x 6 re	schwarz - black	389,0	15,0	59	43	1,22
01301100	J	3 x 10 re	schwarz - black	538,0	17,0	79	59	1,42
01301101	J	3 x 16 re	schwarz - black	747,0	19,0	102	79	1,69

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01301102	J	3 x 16 rm	schwarz - black	747,0	19,0	102	79	1,69
01301103	J	3 x 25 rm	schwarz - black	1.300,0	25,0	133	106	2,47
01301111	J	3 x 25/16 rm/re	schwarz - black	1.323,0	24,0	0	0	
01301112	J	3 x 25/16 rm/rm	schwarz - black	1.323,0	24,0	0	0	
01301104	J	3 x 35 sm	schwarz - black	1.530,0	25,0	159	129	2,14
01301113	J	3 x 35/16 sm/re	schwarz - black	1.541,0	26,0	0	0	
01301105	J	3 x 50 sm	schwarz - black	1.800,0	28,0	188	157	2,60
01301115	J	3 x 50/25 sm/rm	schwarz - black	2.139,0	30,0	0	0	
01301106	J	3 x 70 sm	schwarz - black	2.400,0	30,0	232	199	3,08
01301117	J	3 x 70/35 sm/rm	schwarz - black	2.906,0	34,0	0	0	
01301107	J	3 x 95 sm	schwarz - black	3.300,0	35,0	280	246	4,06
01301118	J	3 x 95/50 sm/sm	schwarz - black	3.976,0	39,0	0	0	
01301108	J	3 x 120 sm	schwarz - black	4.000,0	38,0	318	285	4,47
01301119	J	3 x 120/70 sm	schwarz - black	4.996,0	41,0	0	0	
01301109	J	3 x 150 sm	schwarz - black	4.900,0	42,0	359	326	5,42
01301120	J	3 x 150/70 sm	schwarz - black	5.939,0	46,0	0	0	
01301110	J	3 x 185 sm	schwarz - black	6.500,0	47,0	406	374	
01301121	J	3 x 185/95 sm	schwarz - black	7.569,0	51,0	0	0	
01301215	J	3 x 240 sm	schwarz - black	8.300,0	53,0	473	445	

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Prod. Nr.	Option	Dimensions	Color	Weight (kg/km) approx.	Outer-Diameter (mm) approx.	Power Load Earth (A)	Power Load Air (A)	Calorific potential (kWh/m)
01301122	J	3 x 240/120 sm	schwarz - black	9.682,0	59,0	0	0	
01301123	J	3 x 300/150 sm	schwarz - black	11.909,0	66,0	0	0	
01301124	J	4 x 1,5 re	schwarz - black	208,0	12,0	27	20	0,83
01301126	J	4 x 2,5 re	schwarz - black	261,0	13,0	36	25	0,94
01301128	J	4 x 4 re	schwarz - black	371,0	15,0	47	34	1,25

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Prod. Nr.	Option	Dimensions	Color	Weight (kg/km) approx.	Outer-Diameter (mm) approx.	Power Load Earth (A)	Power Load Air (A)	Calorific potential (kWh/m)
01301130	J	4 x 6 re	schwarz - black	469,0	16,0	59	43	1,42
01301132	J	4 x 10 re	schwarz - black	687,0	19,0	79	59	1,67
01301133	J	4 x 10 rm	schwarz - black	687,0	19,0	79	59	1,67
01301134	J	4 x 16 re	schwarz - black	929,0	20,0	102	79	2,03
01301135	J	4 x 16 rm	schwarz - black	929,0	20,0	102	79	2,03
01301136	J	4 x 25 rm	schwarz - black	1.453,0	25,0	133	106	2,89
01301236	J	4 x 25rm+16re	schwarz - black	1.717,0	26,7	0	0	
01301137	J	4 x 35 sm	schwarz - black	1.750,0	26,0	159	129	2,61
01301138	J	4 x 50 sm	schwarz - black	2.347,0	32,0	188	157	3,31
01301139	J	4 x 70 sm	schwarz - black	3.234,0	34,0	232	199	4,80
01301237	J	4 x 70rm+35rm	schwarz - black	4.038,0	38,2	0	0	
01301140	J	4 x 95 sm	schwarz - black	4.415,0	39,0	280	246	5,11
01301141	J	4 x 120 sm	schwarz - black	5.506,0	43,0	318	285	5,69
01301142	J	4 x 150 sm	schwarz - black	6.714,0	48,0	359	326	6,97
01301143	J	4 x 185 sm	schwarz - black	8.478,0	54,0	406	374	
01301144	J	4 x 240 sm	schwarz - black	10.905,0	60,0	473	445	
01301222	J	4 x 300 sm	schwarz - black	13.407,0	67,0	535	511	
01301145	J	5 x 1,5 re	schwarz - black	238,0	13,0	27	20	0,94
01301147	J	5 x 2,5 re	schwarz - black	302,0	14,0	36	25	1,08

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Prod. Nr.	Option	Dimensions	Color	Weight (kg/km) approx.	Outer-Diameter (mm) approx.	Power Load Earth (A)	Power Load Air (A)	Calorific potential (kWh/m)
01301148	J	5 x 4 re	schwarz - black	433,0	16,0	47	34	1,44
01301149	J	5 x 6 re	schwarz - black	589,0	18,0	59	43	1,64
01301150	J	5 x 10 re	schwarz - black	821,0	21,0	79	59	2,00
01301151	J	5 x 10 rm	schwarz - black	821,0	21,0	79	59	2,00
01301152	J	5 x 16 re	schwarz - black	1.174,0	23,0	102	79	2,39

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01301153	J	5 x 16 rm	schwarz - black	1.174,0	23,0	102	79	2,39
01301154	J	5 x 25 rm	schwarz - black	1.850,0	29,0	133	106	3,42
01301155	J	5 x 35 rm	schwarz - black	2.325,0	33,0	159	129	
01301156	J	5 x 50 rm	schwarz - black	3.127,0	38,0	188	157	
01301157	J	5 x 70 rm	schwarz - black	4.294,0	42,0	232	199	
01301158	J	5 x 95 rm	schwarz - black	5.871,0	48,8	280	246	
01301196	J	5 x 120 rm	schwarz - black	7.211,0	51,0	318	285	
01301202	J	5 x 150 rm	schwarz - black	8.586,0	59,0	359	326	
01301203	J	5 x 185 rm	schwarz - black	11.048,0	63,0	406	374	
01301216	J	5 x 240 rm	schwarz - black	14.396,0	71,0	473	445	
01301241	J	5 x 300 rm	schwarz - black	14.050,0	75,0	535	511	
01301159	J	7 x 1,5 re	schwarz - black	291,0	13,0	27	20	1,08
01301175	J	7 x 2,5 re	schwarz - black	377,0	15,0	36	25	1,22
01301187	J	7 x 4 re	schwarz - black	549,0	19,0	47	34	1,67
01301189	J	7 x 6 re	schwarz - black	714,0	20,0	59	43	
01301190	J	7 x 10 re	schwarz - black	1.029,0	22,0	79	59	
01301225	J	7 x 16 rm	schwarz - black	1.580,0	25,0	102	79	
01301161	J	10 x 1,5 re	schwarz - black	395,0	15,0	27	20	
01301177	J	10 x 2,5 re	schwarz - black	534,0	18,0	36	25	

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Prod. Nr.	Option	Dimensions	Color	Weight (kg/km) approx.	Outer-Diameter (mm) approx.	Power Load Earth (A)	Power Load Air (A)	Calorific potential (kWh/m)
01301163	J	12 x 1,5 re	schwarz - black	442,0	16,0	27	20	1,56
01301178	J	12 x 2,5 re	schwarz - black	604,0	19,0	36	25	1,78
01301235	J	12 x 4 re	schwarz - black	920,0	22,8	47	34	2,53
01301165	J	14 x 1,5 re	schwarz - black	485,0	18,0	27	20	
01301179	J	14 x 2,5 re	schwarz - black	671,0	20,0	36	25	

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01301250	J	14 x 4 re	schwarz - black	1.181,0	25,0	47	34	
01301167	J	16 x 1,5 re	schwarz - black	562,0	19,0	27	20	
01301180	J	16 x 2,5 re	schwarz - black	749,0	20,0	36	25	
01301168	J	19 x 1,5 re	schwarz - black	629,0	20,0	27	20	2,06
01301181	J	19 x 2,5 re	schwarz - black	845,0	21,0	36	25	2,44
01301247	O	19 x 4 re	schwarz - black	1.354,0	28,0	47	34	3,42
01301169	J	21 x 1,5 re	schwarz - black	687,0	20,0	27	20	
01301182	J	21 x 2,5 re	schwarz - black	925,0	22,0	36	25	
01301170	J	24 x 1,5 re	schwarz - black	787,0	22,0	27	20	2,56
01301183	J	24 x 2,5 re	schwarz - black	1.062,0	24,0	36	25	2,94
01301171	J	30 x 1,5 re	schwarz - black	935,0	24,0	27	20	
01301184	J	30 x 2,5 re	schwarz - black	1.271,0	26,0	36	25	
01301172	J	40 x 1,5 re	schwarz - black	1.175,0	26,0	27	20	
01301185	J	40 x 2,5 re	schwarz - black	1.610,0	29,0	36	25	
01301198	J	48 x 2,5 re	schwarz - black	2.070,0	36,0	36	25	
01301173	J	52 x 1,5 re	schwarz - black	1.400,0	30,0	27	20	
01301186	J	52 x 2,5 re	schwarz - black	2.150,0	35,0	36	25	
01301174	J	61 x 1,5 re	schwarz - black	1.650,0	32,0	27	20	