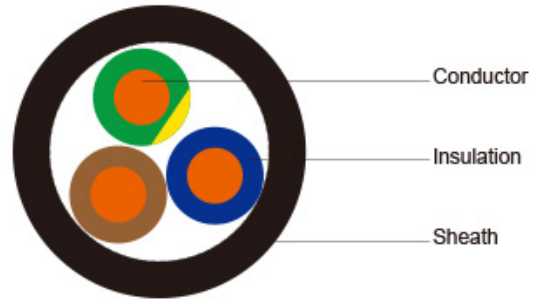


German Standard Industrial Cables NYY-J / NYY-O



Application and Description

NYJ power cable is designed for energy supply in cable ducts, power stations, industry and distribution boards and in subscriber networks. May also be used in brickwork and in concrete with the exception of cabling in shaken, vibrated or compressed concrete. NYJ cables can be installed in open air, underground, in water and indoors where mechanical damages are not to be expected. The UV-resistance allows for outdoor use.

Standard and Approval

VDE-0276 Part-603 & Part-627, HD 603.1 & 627 S1, IEC 60502, VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Solid or stranded, plain copper conductor
- to DIN VDE 0295 cl. 1 or cl. 2, BS 6360 cl. 1 or cl. 2 and IEC 60228 cl. 1 or cl. 2
- PVC insulation DIV4 to HD 603.1
- Color coded to DIN VDE 0293-308, 0276 part 603 or HD 186
- Conductor color for 3+1/2 conductor
- J-type: green-yellow (1/2), brown, black, gray
- O-type: blue (1/2), brown, black, gray
- PVC outer jacket DMV5 to HD 603.1

Technical Characteristics

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 12 x Ø
- Flexing temperature: -5° C to +50° C
- Fixed installation temperature: - 40° C to +70° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 100 MΩ x km

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ²	NOMINAL OVERALL DIAMETER MM	NOMINAL COPPER WEIGHT KG/KM	NOMINAL CABLE WEIGHT KG/KM
12	1x4re	9.0	38.0	130.0
10	1x6re	10.0	58.0	136.0

8	1x10re	11.0	96.0	182.0
6	1x16re	12.0	154.0	252.0
4	1x25rm	13.0	240.0	365.0
2	1x35rm	14.0	336.0	480.0
1	1x50rm	16.0	480.0	620.0
2/0	1x70rm	17.0	672.0	840.0
3/0	1x95rm	19.0	912.0	1100.0
4/0	1x120rm	21.0	1152.0	1320.0
300mcm	1x150rm	23.0	1440.0	1610.0
350mcm	1x185rm	25.0	1776.0	1.980.0
500mcm	1x240rm	28.0	2304.0	2550.0
750mcm	1x300rm	30.0	2880.0	3200.0
-	1x400rm	34.0	3840.0	4000.0
-	1x500rm	38.0	4800.0	5100.0
16	3x1.5re	12.0	43.0	225.0
14	3x2.5re	13.0	72.0	275.0
12	3x4re	14.0	115.0	375.0
10	3x6re	15.0	173.0	480.0
8	3x10re	18.0	288.0	675.0
6	3x16re	19.0	461.0	880.0
4	3x25rm	24.0	720.0	1390.0
2	3x35sm	25.0	1008.0	1600.0
1	3x50sm	28.0	1440.0	2000.0
2/0	3x70sm	31.0	2016.0	2700.0
3/0	3x95sm	35.0	2736.0	3600.0
4/0	3x120sm	39.0	3456.0	4400.0
300mcm	3x150sm	44.0	4320.0	4910.0
350mcm	3x185sm	49.0	5328.0	6520.0
500mcm	3x240sm	53.0	6912.0	8290.0
4	3x25rm/16re	25.0	874.0	1575.0
2	3x35sm/16re	26.0	1162.0	1700.0
1	3x50sm/25rm	30.0	1680.0	2325.0
2/0	3x70sm/35sm	35.0	2352.0	2900.0
3/0	3x95sm/50sm	37.0	3216.0	3900.0
4/0	3x120sm/70sm	42.0	4128.0	4900.0
300mcm	3x150sm/70sm	47.0	4992.0	5800.0
350mcm	3x185sm/95sm	51.0	6240.0	7400.0
500mcm	3x240sm/120sm	59.0	8064.0	9700.0

-	3x300sm/150sm	66.0	10080.0	12000.0
16	4x1.5re	13.0	58.0	220.0
14	4x2.5re	14.0	96.0	300.0
12	4x4re	16.0	154.0	410.0
10	4x6re	17.0	230.0	520.0
8	4x10re	19.0	384.0	720.0
6	4x16re	22.0	614.0	1050.0
4	4x25rm	26.0	960.0	1650.0
2	4x35sm	28.0	1344.0	1860.0
1	4x50sm	31.0	1920.0	2500.0
2/0	4x70sm	35.0	2688.0	3300.0
3/0	4x95sm	38.0	3648.0	4500.0
4/0	4x120sm	42.0	4608.0	5500.0
300mcm	4x150sm	47.0	5760.0	6880.0
350mcm	4x185sm	52.0	7104.0	8460.0
500mcm	4x240sm	59.0	9216.0	11000.0
16	5x1.5re	13.0	72.0	280.0
14	5x2.5re	15.0	120.0	360.0
12	5x4re	16.0	192.0	490.0
10	5x6re	18.0	288.0	650.0
8	5x10re	20.0	480.0	870.0
6	5x16re	23.0	768.0	1255.0
4	5x25rm	30.0	1200.0	1980.0
2	5x35rm	34.0	1680.0	2650.0
16	7x1.5re	14.0	101.0	370.0
16	10x1.5re	17.0	144.0	530.0
16	12x1.5re	18.0	173.0	580.0
16	14x1.5re	19.0	202.0	620.0
16	16x1.5re	20.0	230.0	690.0
16	19x1.5re	21.0	274.0	770.0
16	21x1.5re	22.0	302.0	850.0
16	24x1.5re	23.0	346.0	900.0
16	30x1.5re	24.0	432.0	1030.0
16	40x1.5re	28.0	576.0	1260.0
16	61x1.5re	32.0	878.0	1760.0
14	7x2.5re	16.0	168.0	460.0
14	10x2.5re	19.0	240.0	650.0
14	12x2.5re	20.0	288.0	730.0

14	14x2.5re	21.0	336.0	820.0
14	16x2.5re	22.0	384.0	930.0
14	19x2.5re	23.0	456.0	1000.0
14	21x2.5re	24.0	504.0	1050.0
14	24x2.5re	26.0	576.0	1120.0
14	30x2.5re	28.0	720.0	1300.0
14	40x2.5re	30.0	960.0	1700.0
14	52x2.5re	36.0	1248.0	2300.0
14	61x2.5re	38.0	1464.0	2600.0
14	7x4re	19.0	269.0	620.0
14	7x6re	21.0	403.0	860.0