

These tough cables are designed for fixed power and control use primarily in industrial applications. Also known as NYY-J (including earth) and NYY-O (without earth) they can be used as an alternative to the old Delta Hi-tuf cables.

Suitable for installation indoors, outdoors, in ducts, in water or underground.

Construction

solid or stranded plain copper conductors
polyvinylchloride (PVC) core insulation
cores twisted concentrically (multicores)
filling compound over the core assembly
black hardened PVC outer sheath

Technical

conductor stranding: according to VDE 0295 class 1 or 2
RE = solid round, RM = stranded round, SM = stranded sectorial

bend radius: single core = 15 x O/D (overall diameter), multicore = 12 x O/D

voltage rating: 600/1000V operating, 4000V test

current rating: see NYY & NYCY chart

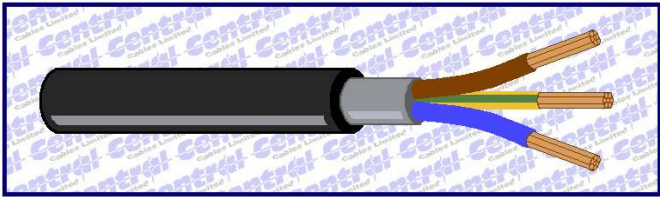
temperature range: -5°C to +50°C flexible, -30°C to +70°C static

standards: construction generally to VDE 0276, flame retardant according to IEC 60332

core identification: single core = black (NYY-O) or green/yellow (NYY-J) insulation
2 cores = coloured brown & blue (NYY-O)
3 to 5 cores = coloured to VDE 0293 including green/yellow earth (NYY-J)
6+ cores = numbered black cores including green/yellow earth (NYY-J)

Single Core Cables

Conductor		Cable Overall		Conductor		Cable Overall	
Area (mm ²)	Stranding Type	Diameter (mm)	Weight (kg/km)	Area (mm ²)	Stranding Type	Diameter (mm)	Weight (kg/km)
2.5	RE	6.5	98	95.0	RM	19.0	1100
4.0	RE	7.0	110	120.0	RM	20.5	1350
6.0	RE	8.4	135	150.0	RM	23.0	1650
10.0	RE	9.2	165	185.0	RM	26.0	2000
16.0	RE	10.5	240	240.0	RM	29.0	2600
25.0	RM	12.5	350	300.0	RM	32.0	3200
35.0	RM	14.0	460	400.0	RM	35.0	4100
50.0	RM	15.5	600	500.0	RM	38.0	5200
70.0	RM	17.0	800	630.0	RM	43.0	6650



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Standard Multicore Cables									
Conductors			Cable Overall		Conductors			Cable Overall	
Number of	Area (mm ²)	Strand Type	Diameter (mm)	Weight (kg/km)	Number of	Area (mm ²)	Strand Type	Diameter (mm)	Weight (kg/km)
2	1.5	RE	11.0	170	40	2.5	RE	32.0	165
3	1.5	RE	11.5	190	52	2.5	RE	35.0	215
4	1.5	RE	12.5	220					
5	1.5	RE	13.0	270	2	4.0	RE	14.0	290
7	1.5	RE	14.0	300	3	4.0	RE	14.5	330
10	1.5	RE	16.0	360	4	4.0	RE	15.5	400
12	1.5	RE	17.0	400	5	4.0	RE	17.0	480
14	1.5	RE	18.0	450	7	4.0	RE	18.0	630
16	1.5	RE	18.5	500					
19	1.5	RE	19.0	560	2	6.0	RE	15.0	360
21	1.5	RE	20.0	620	3	6.0	RE	15.5	420
24	1.5	RE	22.0	700	4	6.0	RE	17.0	510
30	1.5	RE	25.0	810	5	6.0	RE	18.0	610
40	1.5	RE	28.0	1050	7	6.0	RE	19.0	840
52	1.5	RE	33.0	1400					
61	1.5	RE	34.0	1650	2	10.0	RE	16.0	490
					3	10.0	RE	17.0	580
2	2.5	RE	12.0	210	4	10.0	RE	19.0	720
3	2.5	RE	12.5	240	5	10.0	RE	21.0	880
4	2.5	RE	14.0	290	7	10.0	RE	24.0	1150
5	2.5	RE	15.0	350					
7	2.5	RE	16.0	420	2	16.0	RE	18.0	660
10	2.5	RE	18.0	500	3	16.0	RE	19.0	810
12	2.5	RE	19.0	560	4	16.0	RE	22.0	1050
14	2.5	RE	20.0	630	5	16.0	RE	23.0	1250
16	2.5	RE	21.0	710					
19	2.5	RE	22.0	830	2	25.0	RM	24.0	940
21	2.5	RE	23.0	910	3	25.0	RM	25.0	1300
24	2.5	RE	26.0	105	4	25.0	RM	28.0	1600
30	2.5	RE	29.0	125	5	25.0	RM	30.0	1950

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Standard Multicore Cables									
Conductors			Cable Overall		Conductors			Cable Overall	
Number of	Area (mm ²)	Strand Type	Diameter (mm)	Weight (kg/km)	Number of	Area (mm ²)	Strand Type	Diameter (mm)	Weight (kg/km)
3	35.0	SM	25.0	1400	3	120.0	SM	38.0	4000
4	35.0	SM	30.0	1750	4	120.0	SM	45.0	5200
5	35.0	RM	40.0	2400					
					3	150.0	SM	40.0	4900
3	50.0	SM	28.0	1800	4	150.0	SM	50.0	6400
4	50.0	SM	32.0	2300					
5	50.0	RM	44.0	3500	3	185.0	SM	46.0	6500
					4	185.0	SM	55.0	8500
3	70.0	SM	30.0	2400					
4	70.0	SM	36.0	3100	3	240.0	SM	51.0	8300
					4	240.0	RE	63.5	11000
3	95.0	SM	35.0	3300					
4	95.0	SM	41.0	4200					

Composite Cables, 3 cores plus smaller earth wire							
Conductors excluding earth			Earth Wire			Cable Overall	
Number of	Area (mm ²)	Strand Type	Number of	Area (mm ²)	Strand Type	Diameter (mm)	Weight (kg/km)
3	25.0	RM	1	16.0	RE	27.0	1500
3	35.0	SM	1	16.0	RE	28.0	1700
3	50.0	SM	1	25.0	RM	32.0	2300
3	70.0	SM	1	35.0	SM	37.0	2800
3	95.0	SM	1	50.0	SM	40.0	3800
3	120.0	SM	1	70.0	SM	46.0	4700
3	185.0	SM	1	95.0	SM	62.0	7400
3	240.0	SM	1	120.0	SM	62.0	9600
3	300.0	SM	1	150.0	SM	67.0	11200

Polyvinylchloride (PVC) Properties: These compounds are self-extinguishing with fair abrasive resistance, good resistance to water, aqueous salt solutions, acids and alkalis, moderate/poor resistance against organic solvents and oils. Oil resistant versions are commonly available.

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