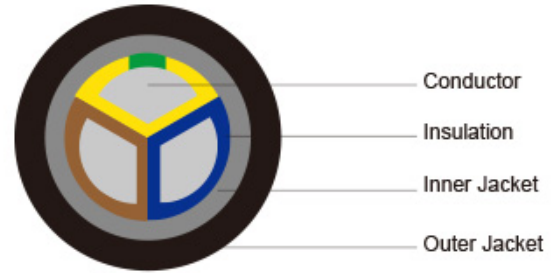


German Standard Industrial Cables NAYY-J/NAYY-O



Application and Description

NAYY is used in power plants industrial and switching installations, in secondary distribution networks and other. These cables are preferentially used in outdoor applications, for indoor installations, in the open air, underground and in water where mechanical damage is not anticipated.

Standard and Approval

VDE 0276 part 603, IEC 60502

Cable Construction

- Aluminium Conductor
- VDE 0295 cl. 1 or cl. 2 (round and sector shaped), BS 6360/IEC 60228 cl. 1 or cl. 2
- PVC insulation type DIV4 acc. VDE0207
- Color coded to DIN VDE 0293
- PVC compound inner sheath
- PVC outer sheath type DMV5 acc. VDE 0207

Technical Characteristics

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Minimum bending radius: 12 x Ø
- Flexing temperature: -5° C to +50° C
- Fixed installation temperature: - 30° C to +70° C
- Short circuit temperature: +160° C
- Flame-retardant to DIN VDE 0472 part 804 class B/IEC 60332-1

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ²	STRANDED CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER MM	ALUMINIUM WEIGHT KG/KM	NOMINAL CABLE WEIGHT KG/KM
NAYY-O					
4	1 x 25.0	re	12.2	70	190
2	1 x 35.0	re	13.1	97	229
1	1 x 50.0	re	14.5	131	288
1	1 x 50.0	rm	15.4	135	303
2/0	1 x 70.0	rm	17.1	195	385
3/0	1 x 95.0	rm	19.3	270	499

4/0	1 x 120.0	rm	20.8	341	589
300mcm	1 x 150.0	rm	22.6	419	705
350mcm	1 x 185.0	rm	24.9	526	862
500mcm	1 x 240.0	rm	27.7	690	1083
750mcm	1 x 300.0	rm	30.6	863	1325
-	1 x 400.0	rm	34.0	1109	1657
-	1 x 500.0	rm	38.0	1461	2172
4	2 x 25.0	re	22.4	140	685
2	2x 35.0	re	24.3	194	826
2	2 x 35.0	rm	25.4	199	880
1	2 x 50.0	re	27.3	261	1049
1	2 x 50.0	rm	29.1	269	1155
2/0	2 x 70.0	rm	33.1	390	1447
3/0	2 x 95.0	rm	37.9	539	1905
NAYY-J					
4	3 x 25.0	re	23.7	210	768
2	3 x 35.0	re	25.8	291	932
1	3 x 50.0	sm	30.9	404	1294
1	3 x 50.0	sm	27.8	404	994
2/0	3 x 70.0	sm	31.2	584	1250
3/0	3 x 95.0	sm	35.8	809	1675
4/0	3 x 120.0	sm	38.0	1023	1964
300mcm	3 x 150.0	sm	41.8	1257	2365
350mcm	3 x 185.0	sm	45.7	1579	2913
500mcm	3 x 240.0	sm	51.1	2071	3693
1	3 x 50.0+25	re+re	30.5	462	1310
1	3 x 50.0+25	sm+rm	31.2	474	1158
2/0	3 x 70.0+35	sm+rm	36.0	684	1537
3/0	3 x 95.0+50	sm+rm	40.2	944	1971
4/0	3x120.0+70	sm+rm	43.2	1218	2346
300mcm	3 x 150.0+70	sm+rm	48.0	1452	2839
350mcm	3 x 185.0+95	sm+rm	52.3	1848	3470
500mcm	3x240.0+120	sm+rm	58.7	2412	4399
750mcm	3x300.0+150	sm+rm	64.3	3008	5321
4	4 x 25.0	re	25.8	281	912
2	4 x 35.0	re	28.2	388	1111
1	4 x 50.0	se	31.2	539	1265
2/0	4 x 70.0	se	36.0	779	1658

3/0	4 x 95.0	se	40.2	1079	2139
4/0	4 x120.0	se	43.2	1364	2524
300mcm	4 x 150.0	se	48.0	1676	3123
350mcm	4 x 185.0	se	53.7	2105	4002
500mcm	4 x 240.0	se	58.7	2762	4848
750mcm	4 x 300.0	se	64.3	3452	5882
4	5 x 25.0	re	28.1	351	1072
2	5 x 35.0	re	30.9	485	1326
1	5 x 50.0	re	35.7	653	1771
4	5 x 25.0	rm	30.4	360	1183
2	5 x 35.0	rm	33.0	497	1456
1	5 x 50.0	rm	38.1	673	1919
2/0	5 x 70.0	rm	43.3	974	2452
3/0	5 x 95.0	rm	49.8	1349	3257