



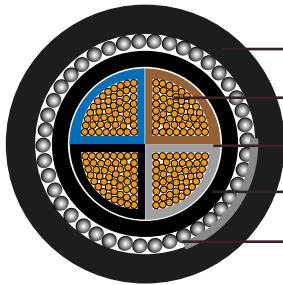
### N2XFGY/ NA2XFGY

#### Application and Description

N2XFGY/ NA2XFGY cables are for lying in earth, indoors, in ducts, in the open air, in the water, when additional mechanical protection is required when cable is exposed to mechanical tensile strain during laying and use. For use in mines according to Technical standards for electrical plants, equipments and installations in mines, as well as horizontal and vertical installation in places where there is a height difference in mines, including methane holes.

#### Standard and Approval

IEC 60502-1, VDE 0276-603



- PVC outer jacket
- Plain copper conductor
- XLPE insulation
- Thermoplastic compound filler
- Flat steel wire with steel tape armour

N2XFGY



N2XFGY

#### Cable Construction

- Stranded plain copper/aluminum conductor
- to DIN VDE 0295 cl. 2, IEC 60228 cl. 2
- Cross-linked polyethylene 2X11 acc. to VDE 0276-603
- Color coded to DIN VDE 0293(HD 308)
- Thermoplastic compound filler
- Flat steel wire with steel tape armour
- PVC outer jacket DMV5 to HD 603.1



### Technical Characteristics

- Working voltage: 600/1000 volts
- Test voltage: 3500 volts
- Minimum bending radius: 12 x Ø
- Flexing temperature: -5° C to +70° C
- Fixed installation temperature: - 30° C to +70° C
- Short circuit temperature: +250° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Conductor Type	Nominal Overall Diameter mm	Copper Weight kg / km	Copper Cable Weight kg / km	AL Weight kg / km	AL Cable Weight kg / km
4	3x25	rm	25,5	720	1617	218	1149
2	3x35	rm	28,0	1008	2010	305	1354
1	3x50	sm	28,0	1440	2210	435	1309
2/0	3x70	sm	31,5	2016	2925	609	1628
3/0	3x95	sm	35,0	2736	3835	827	2023
4/0	3x120	sm	38,0	3456	4662	1044	2367
300mcm	3x150	sm	42,0	4320	5586	1305	2787
350mcm	3x185	sm	46,5	5328	6900	1610	3372
500mcm	3x240	sm	51,5	6912	8732	2088	4057
4	3x25+16	rm	26,5	874	1807	263	1230
2	3x35+16	rm	29,0	1162	2193	351	1426
1	3x50+25	sm	31,0	1680	2593	507	1534
2/0	3x70+35	sm	35,5	2352	3476	711	1958
3/0	3x95+50	sm	38,5	3216	4461	972	2350
4/0	3x120+70	sm	42,0	4128	5494	1247	2766
300mcm	3X150+70	sm	47,0	4992	6586	1508	3339
350mcm	3X185+95	sm	51,0	6240	8095	1886	3962
500mcm	3X240+120	sm	58,0	8064	10400	2436	4964
10	4x6	rm	18,0	230	753	70	603



## German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Conductor Type	Nominal Overall Diameter mm	Copper Weight kg / km	Copper Cable Weight kg / km	AL Weight kg / km	AL Cable Weight kg / km
8	4x10	rm	20,0	384	1006	116	755
6	4x16	rm	23,5	614	1374	186	910
4	4x25	rm	28,0	960	1946	290	1319
2	4x35	rm	30,5	1344	2447	406	1572
1	4x50	sm	31,0	1920	2780	580	1574
2/0	4x70	sm	35,0	2688	3729	812	1992
3/0	4x95	sm	38,5	3648	4870	1102	2440
4/0	4x120	sm	41,5	4608	5949	1392	2873
300mcm	4x150	sm	47,0	5760	7264	1740	3513
350mcm	4x185	sm	51,0	7104	8878	2148	4147
500mcm	4x240	sm	58,0	9216	11436	2784	5170
10	5x6	rm	19,5	288	837	88	686
8	5x10	rm	21,5	480	1170	145	857
6	5x16	rm	25,5	768	1628	233	1057
4	5x25	rm	30,0	1200	2325	363	1570