

# NFA2X

## XLPE insulated bundled overhead line

Standard: VDE 0276–626/A1

### Usage:

Can be used for fixed installation as overhead power lines up to 1000 V inclusive. Not suitable for direct burial.



### Construction:

- 1 Aluminium conductor with increased breaking load, round stranded compacted (RM)
- 2 Core insulation (PE black, UV-resistant); 2 or 4 cores of equal cross section are stranded together in left-hand lay, additionally 1 or 2 cores of reduced cross section can be co-stranded



**Rated voltage:** 0.6/1 kV



**Test voltage:** 4000 Veff



### Temperature range:

laying temperature: min. –5 °C  
 operating temperature: –30 °C to +80 °C  
 conductor temperature: max. +80 °C  
 short-circuit temperature: max. +130 °C/5 s



**Bending radius (min.):** 18 x core-Ø



### Core identification:

1, 2 resp. 3 raised longitudinal ribs on the surface of the cores. The surface of the neutral conductor is smooth.



**Test certificate:** EZÚ Czech Republic,  
 VDE Germany,  
 BBJ Poland

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Min. breaking load of conductor strand (kN)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>NFA2X</b>							
4 x 25 RM	1.200	3.8	107	21.2	290	430	1000 T
4 x 35 RM	0.868	5.2	132	24.1	406	553	1000 T
4 x 50 RM	0.641	7.6	165	27.8	580	746	1000 T
4 x 70 RM	0.443	10.2	205	31.8	812	1,009	1000 T
4 x 70 + 1 x 35 RM/RM	0.443/0.868	10.2/5.2	205/132	36.2	914	1,150	1000 T
4 x 70 + 2 x 35 RM/RM	0.443/0.868	10.2/5.2	205/132	40.1	1,016	1,289	1000 T
<b>Cross sections out of the range of the specifications</b>							
2 x 16 RM	1.910	2.3	72	15.6	93	147	1000 T
4 x 16 RM	1.910	2.3	72	18.8	186	286	1000 T
1 x 25 RM	1.910	3.8	107	9.0	73	106	1000 T
2 x 25 RM	1.200	3.8	107	18.0	145	208	1000 T
1 x 35 RM	0.868	5.2	132	10.0	102	135	1000 T
4 x 35 + 35 RM/RM	0.868/0.868	5.2/5.2	132/132	26.5	508	670	1000 T
1 x 50 RM	0.641	7.6	165	11.8	145	182	1000 T
2 x 50 RM	0.641	7.6	165	23.5	290	361	1000 T
3 x 50 RM	0.641	7.6	165	25.0	435	541	1000 T
4 x 50 + 25 RM/RM	0.641/1.200	7.6/3.8	165/107	31.9	653	814	1000 T
4 x 50 + 35 RM/RM	0.641/0.868	7.6/5.2	165/132	31.9	682	845	1000 T
1 x 70 RM	0.443	10.2	205	13.4	203	253	1000 T
4 x 70 + 25 RM/RM	0.443/1.200	10.2/3.8	205/107	36.0	885	1,105	1000 T

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Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Min. breaking load of conductor strand (kN)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>Cross sections out of the range of the specifications</b>							
1 x 95 RM	0.320	13.5	240	15.4	276	333	1000 T
3 x 95 RM	0.320	13.5	240	33.2	827	999	1000 T
4 x 95 RM	0.320	13.5	240	37.8	1,102	1,332	1000 T
4 x 95 + 25 RM/RM	0.320/1.200	13.5/3.8	240/107	41.8	1,175	1,438	1000 T
4 x 95 + 35 RM/RM	0.320/0.868	13.5/5.2	240/132	41.8	1,204	1,467	1000 T

1) basic rated current acc. to VDE 0276–626/A1  
Subject to technical changes.