



Feature

These low voltage cables are applied for low voltage network and service entrance cable on the customer.

CONSTRUCTION

Conductor

Twisted cable with neutral messenger (**NFA2X-T**):

- Stranded all aluminium conductor for phase and public lighting.
- Stranded all alloy aluminium conductor for neutral messenger.

Self support and service entrance (**NFA2X and NF2X**):

- Stranded all aluminium conductor for phase and neutral of **NFA2X**.
- Stranded annealed copper conductor for phase and neutral of **NF2X**.

Insulation

Extruded Black Crosslink Polyethylene (XLPE), suitable for the operating temperature of the cable.

Specification :

SPLN 42-10 :1993 & SNI 04-1906:1990

(Other specification are available upon request)

PHYSICAL PROPERTIES

Nominal cross section	Element of cable			Insulation thickness
	Conductor		XLPE	
	No./diameter of wire	Nominal diameter of conductor		
mm ²	n/mm	mm	mm	
6 mm *)	7/1.05	3.15	1.2	
10 mm	7/1.35	4.05	1.2	
16 mm	7/1.71	5.13	1.2	
25 mm	7/2.13	6.39	1.4	
35 mm	7/2.52	7.56	1.6	
50 mm	7/3.02	9.06	1.6	
70 mm	19/2.17	10.85	1.8	
95 mm	19/2.52	12.60	2.0	

*) Not valid for Aluminium Conductor

PHYSICAL AND ELECTRICAL PROPERTIES

Cable Construction		Complete Cable				D.C. resistance of conductor at 20°C		Max. Current capacity at 35°C		Calculated breaking force		Standard Packaging		
						AL	CU	AL	CU	AL	CU	Standard length	Type of reel	
No. of core	Nom. cross section	Assembly Pitch		Approx. twisted diameter	Approx. cable weight									
		Min.	Max.		AL	CU								
mm ²		cm		mm	kg/km		ohm/km		A		kg		m	
2 x 6	rm*)	16	27	11.1	-	144	-	3.08	-	54	-	394	2,000	Drum
2 x 10	rm	21	35	12.9	98	224	3.08	1.83	54	73	322	656	2,000	Drum
2 x 16	rm	23	38	15.1	142	345	1.91	1.15	72	97	515	1051	2,000	Drum
4 x 6	rm*)	19	32	13.4	-	289	-	3.08	-	54	-	788	1,000	Drum
4 x 10	rm	25	42	15.6	195	449	3.08	1.83	54	73	644	1312	1,000	Drum
4 x 16	rm	28	46	18.2	283	690	1.91	1.15	72	97	1030	2102	1,000	Drum
4 x 25	rm	35	58	22.2	429	1,061	1.20	0.727	102	133	1610	3284	1,000	Drum
4 x 35	rm	41	67	26.0	593	1,477	0.868	-	125	-	2250	-	1,000	Drum

*) Not valid for Aluminium Conductor

**LOW VOLTAGE BUNDLED CONDUCTOR
FOR OVERHEAD LINE : NFA2X-T (TWISTED CABLE)
Specification : SPLN 42-10:1993 & SNI 04-1906:1990**



PHYSICAL PROPERTIES

Cable Construction	Phase conductor		Neutral Messenger conductor		Public lighting conductor		Complete cable						
	No. of core	Nom. cross section	Insulation thickness	Max. outer diameter	Insulation thickness	Max. outer diameter	Insulation thickness	Max. outer diameter	Assembly Pitch		Approx. twisted diameter	Approx. Cable weight	
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	Min.	Max.			cm
2x25 + 1x25	1.4	10.0	1.4	10.0	-	-	32	65	19.8	318			
2x35 + 1x25	1.6	11.2	1.4	10.0	-	-	36	73	22.1	340			
2x50 + 1x35	1.6	12.6	1.6	11.2	-	-	41	82	25.3	545			
2x70 + 1x50	1.8	15.4	1.6	12.6	-	-	50	100	29.6	732			
2x95 + 1x70	2.0	17.0	1.8	15.4	-	-	55	110	34.2	976			
3x25 + 1x25	1.4	10.0	1.4	10.0	-	-	36	73	22.2	425			
3x35 + 1x25	1.6	11.2	1.4	10.0	-	-	41	81	28.0	546			
3x50 + 1x35	1.6	12.6	1.6	11.2	-	-	46	91	32.1	744			
3x70 + 1x50	1.8	15.4	1.6	12.6	-	-	56	112	37.5	998			
3x95 + 1x70	2.0	17.0	1.8	15.4	-	-	63	125	43.4	1,330			
3x25 + 1x25 + 2x16	1.4	10.0	1.4	10.0	1.2	8.1	36	73	29.0	565			
3x35 + 1x25 + 2x16	1.6	11.2	1.4	10.0	1.2	8.1	41	81	30.4	687			
3x50 + 1x35 + 2x16	1.6	12.6	1.6	11.2	1.2	8.1	46	91	33.0	884			
3x70 + 1x50 + 2x16	1.8	15.4	1.6	12.6	1.2	8.1	56	112	37.5	1,138			
3x95 + 1x70 + 2x16	2.0	17.0	1.8	15.4	1.2	8.1	63	125	43.4	1,470			

**LOW VOLTAGE BUNDLED CONDUCTOR
FOR OVERHEAD LINE : NFA2X-T (TWISTED CABLE)
Specification : SPLN 42-10 & SNI 04-1906:1990**



ELECTRICAL PROPERTIES AND STANDARD PACKAGING

Cable Construction		D.C. resistance of conductor at 20° C			Max. current capacity at 35° C		Calculated breaking force	Standard Packaging	
No. of core	Nom. x cross section	Phase Conductor	Messenger conductor	Public Lighting conductor	Phase conductor	Public lighting conductor		Standard length	Type of reel
mm ²		ohm/km			A		kg	m	
2x25 + 1x25		1.20	1.38	-	103	-	712	1000	Drum
2x35 + 1x25		0.868	1.38	-	125	-	712	1000	Drum
2x50 + 1x35		0.641	0.986	-	154	-	997	1000	Drum
2x70 + 1x50		0.443	0.690	-	196	-	1395	1000	Drum
2x95 + 1x70		0.320	0.450	-	242	-	1932	750	Drum
3x25 + 1x25		1.20	1.38	-	103	-	712	1000	Drum
3x35 + 1x25		0.868	1.38	-	125	-	712	1000	Drum
3x50 + 1x35		0.641	0.986	-	154	-	997	1000	Drum
3x70 + 1x50		0.443	0.690	-	196	-	1395	750	Drum
3x95 + 1x70		0.320	0.450	-	242	-	1932	500	Drum
3x25 + 1x25 + 2x16		1.20	1.38	1.91	103	72	712	500	Drum
3x35 + 1x25 + 2x16		0.868	1.38	1.91	125	72	712	500	Drum
3x50 + 1x35 + 2x16		0.641	0.986	1.91	154	72	997	500	Drum
3x70 + 1x50 + 2x16		0.443	0.690	1.91	196	72	1395	500	Drum
3x95 + 1x70 + 2x16		0.320	0.450	1.91	242	72	1932	500	Drum