

THREE - SINGLE CORE OVERHEAD TWISTED CABLE

ALUMINIUM CONDUCTOR, XLPE INSULATED, COPPER WIRE SCREENED, PVC SHEATHED WITH PVC COVERED STRANDED STEEL WIRE MESSENGER

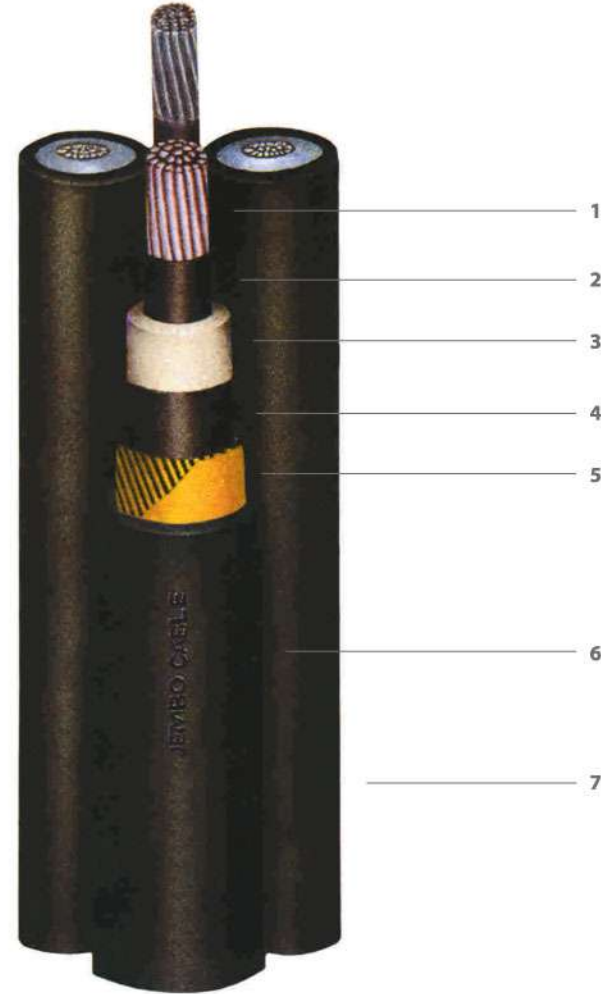
Type :
NFA2XSY-T

Nominal Voltage :
12/20 kV

Maximum System Voltage :
24 kV

Application :
Used for Overhead Installation

Specification :
SPLN 43-5-2 : 1995



CONSTRUCTION

- 1. Conductor : Aluminium (Compact Circular Stranded)
- 2. Conductor Screen : Extruded Semiconductive Compound
- 3. Insulation : Extruded Crosslinked Polyethylene (XLPE)
- 4. Insulation Screen : Extruded Strippable Semiconductive Compound
- 5. Metallic Screen : Copper Wire Screen
- 6. Sheath : Extruded PVC 90°C grade
- 7. Messenger : Stranded Steel Wire, PVC 90°C Covered

NFA2XSY-T

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ALUMINIUM CONDUCTOR, XLPE INSULATED,
COPPER WIRE SCREENED AND PVC SHEATHED

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : SPLN 43-5-2 : 1995
Other specifications are available on request

NFA2XSY-T - ALUMINIUM CONDUCTOR

3 CORES + 1 MESSENGER

Nominal cross sectional area of	PHASE	mm ²	35			50			70			95			120			150		
			mm ²	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70
PHASE	Approx. Conductor diameter	mm	6.8	7.9	9.6	11.3	12.7			14.0										
	Max. DC Conductor resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.320	0.253			0.206										
	Nominal Insulation thickness	mm	5.5	5.5	5.5	5.5	5.5			5.5										
	Min. DC Insulation resistance at 20°C	m.ohm.km	4400	4100	3600	3200	3000			2800										
	Nominal Sheath thickness	mm	2.5	2.5	2.5	2.5	2.5			2.5										
	Outer diameter	mm	27.1	28.2	29.8	31.5	32.9			34.2										
Steel Messenger	PVC. ins. Thickness	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	Outer diameter	mm	11.6	11.6	11.6	11.6	11.6	13.4	11.6	13.4	11.6	13.4	15.2							
Overall diameter	approx.	mm	58.4	60.8	64.3	68.0	71.1	71.1	74.0	74.0	74.0	74.0								
Cable Net. Weight	approx.	kg/km	2920	3128	3455	3829	4172	4357	4735	4920	5136									
Standard length per reel		m	500	500	500	500	500	500	500	500	500									
Minimum bending radius		mm	701	730	772	816	853	853	888	888	888									
Capacitance		µF/km	0.144	0.157	0.177	0.197	0.214	0.214	0.229	0.229	0.229									
Inductance		mH/km	0.178	0.163	0.144	0.129	0.119	0.119	0.112	0.112	0.112									
Current carrying capacity in air	at 20°C	A	130	159	193	240	277	277	326	326	326									
	at 40°C	A	110	134	163	203	234	234	275	275	275									
Short circuit current at 1 sec.		kA	3.2	4.6	6.4	8.7	11.0	11.0	13.8	13.8	13.8									
AC voltage test		kV/5 min	30	30	30	30	30	30	30	30	30									
Calculated breaking force of Steel Messenger		kN	62	62	62	62	62	89	62	89	122									

Nominal cross sectional area of	PHASE	mm ²	185			240			300			
			mm ²	50	70	95	50	70	95	120	70	95
PHASE	Approx. Conductor diameter	mm	15.7			18.0			20.1			
	Max. DC Conductor resistance at 20°C	Ohm/km	0.164			0.125			0.100			
	Nominal Insulation thickness	mm	5.5			5.5			5.5			
	Min. DC Insulation resistance at 20°C	m.ohm.km	2500			2300			2100			
	Nominal Sheath thickness	mm	2.5			2.5			2.5			
	Outer diameter	mm	35.9			38.2			40.3			
Steel Messenger	PVC. ins. Thickness	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.3
	Outer diameter	mm	11.6	13.4	15.2	11.6	13.4	15.2	17.0	13.4	15.2	17.0
Overall diameter	approx.	mm	77.6	77.6	77.6	82.6	82.6	82.6	82.6	87.1	87.1	87.1
Cable Net. Weight	approx.	kg/km	5199	5384	5600	5878	6063	6279	6506	6749	6965	7192
Standard length per reel		m	300	300	300	300	300	300	300	300	300	300
Minimum bending radius		mm	931	931	931	991	991	991	991	1045	1045	1045
Capacitance		µF/km	0.249	0.249	0.249	0.276	0.276	0.276	0.276	0.300	0.300	0.300
Inductance		mH/km	0.103	0.103	0.103	0.093	0.093	0.093	0.093	0.085	0.085	0.085
Current carrying capacity in air	at 20°C	A	370	370	370	429	429	429	429	479	479	479
	at 40°C	A	312	312	312	362	362	362	362	404	404	404
Short circuit current at 1 sec.		kA	17.0	17.0	17.0	22.1	22.1	22.1	22.1	27.6	27.6	27.6
AC voltage test		kV/5 min	30	30	30	30	30	30	30	30	30	30
Calculated breaking force of Steel Messenger		kN	62	89	122	62	89	122	155	89	122	155