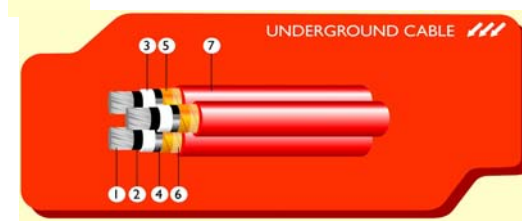


NF2XSEY - NFA2XSEY 12/20 (24) Kv UNDERGROUND TWISTED CABLE

Copper or Aluminium Conductor , XLPE Insulated
Copper wire / tape screened, PVC sheathed cable



- 1. Conductor : Copper or aluminium (compacted circular stranded)
- 2. Conductor screen : Extruded semi conductive compou
- 3. Insulation : Extruded Cross Linked Polyethylene (XLPE)
- 4. Insulation screen : Extruded Strippable semi conductive compou
- 5. Metallic Screen : Helically Overlapped copper tap
- 6. Inner Covering : Helically Overlapped Polyester tape
- 7. Outer Sheath : Extruded PVC 90° C grade

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA

SPEC STD Specification : SPLN 43-5, IEC 60520

Cu Conductor Shape : Copper or aluminium (compacted circular stranded)

APL Application : Used for direct burial installation or in ducts for power station industrial plants and switching station.

DIMENSIONAL DATA

3 CORES

Cross Section Nominal	Conductor Diameter (Approx)	Insulation Thickness Nominal	Insulation Diameter (Approx)
(mm ²)	(mm)	(mm)	(mm)
35	7.1	5.5	19.7
50	8.25		20.9
70	9.9		22.5
95	11.7		24.3
120	13.1		25.7
150	14.3		26.9
185	16.3		28.9
240	18.7		31.3
300	20.9		33.5

Sheath Thickness Nominal	Cable Net Weight (Approx)		Min. Bending Radius	Overall Cable Diameter	Std. Length per reel
	Cu	Al			
(mm)	(kg / km)	(kg / km)	(mm)	(mm)	(m)
1.8	3.000	2.400	470	56	500
	3.500	2.600	500	58	
1.9	4.300	3.000	540	62	
	5.200	3.400	580	66	
2.0	6.100	3.800	620	70	350
	7.100	4.300	660	73	
2.1	8.200	4.800	700	77	
	10.100	5.500	760	83	
2.2	12.100	6.300	820	88	

ELECTRICAL DATA

Cross Section Nominal	Max.DC Resistance at 20° C Conductor		DC Insulation Resistance at 20° C
	Cu	Al	
(mm ²)	(ohm / km)	(ohm / km)	M.Ohm.km
35	0.524	0.868	1.400
50	0.387	0.641	1.300
70	0.268	0.443	1.100
95	0.193	0.320	1.000
120	0.153	0.253	900
150	0.124	0.206	
185	0.0991	0.164	800
240	0.0754	0.125	700
300	0.0601	0.100	

Current Carrying Capacity at 30° C - in Ground		Capacitance per phase	Inductance per phase	Max.Short Circuit Current of Screen	Max.Short Circuit Current of Conductor	
Cu	Al				Cu	Al
A	A	uF / km	mH / km	kA / Sec	kA / Sec	kA / Sec
175	135	0.107	0.416	2.77	5.18	3.45
207	157	0.117	0.399	2.92	7.36	4.89
252	196	0.130	0.380	3.14	10.26	6.81
302	233	0.144	0.362	3.38	13.88	9.19
343	267	0.154	0.351	3.57	17.49	11.58
386	299	0.162	0.343	4.66	21.81	14.43
435	339	0.178	0.331	3.99	26.86	17.76
504	395	0.196	0.318	4.31	34.78	22.98
567	447	0.210	0.309	4.60	43.41	28.67