



**TECHNICAL
DATASHEET**

**CABLES
ACCESSORIES**



Technical Performances

Standard	IEC 60502			
Voltage classes	6/10 (12) kV	8.7/15 (17.5) kV	12/20 (24) kV	18/30 (36) kV
Partial discharge test at ambient temperature	10kV, <10pC	15kV, <10pC	20kV, <10pC	30kV, <10pC
AC withstand voltage test	27kV 5min	39kV 5min	54kV 5min	81kV 5min
Impulse voltage withstand	±75kV each polarity 10 times	±95kV each polarity 10 times	±125kV each polarity 10 times	±170kV each polarity 10 times

Dimensions

6/10(12) KV		
Indoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKIT-12/1x25-50	12.0-16.0	25-50
NKIT-12/1x70-150	17.6-22.8	70-150
NKIT-12/1x185-300	24.0-31.0	185-300
NKIT-12/1x400-500	31.5-37.0	400-500
NKIT-12/1x630	38.0-41.9	630
1x3 cores		
NKIT-12/3x25-50	12.0-16.0	25-50
NKIT-12/3x70-150	17.6-22.8	70-150
NKIT-12/3x185-300	24.0-31.0	185-300
NKIT-12/3x400-500	31.5-37.0	400-500

12/20(24) kV		
Indoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKIT-24/1x25-50	17.5-20.3	25-50
NKIT-24/1x70-150	21.5-26.5	70-150
NKIT-24/1x185-300	27.5-33.0	185-300
NKIT-24/1x400-500	34.2-39.5	400-500
NKIT-24/1x630	40.5-43.0	630
1x3 cores		
NKIT-24/3x25-50	17.5-20.3	25-50
NKIT-24/3x70-150	21.5-26.5	70-150
NKIT-24/3x185-300	27.5-32.8	185-300
NKIT-24/3x400-500	33.5-39.5	400-500

8.7/15(17.5) kV		
Indoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKIT-17.5/1x25-50	16.0-19.5	25-50
NKIT-17.5/1x70-150	20.3-23.5	70-150
NKIT-17.5/1x185-300	24.0-31.0	185-300
NKIT-17.5/1x400-500	31.5-37.0	400-500
NKIT-17.5/1x630	38.0-41.9	630
1x3 cores		
NKIT-17.5/3x25-50	16.0-19.5	25-50
NKIT-17.5/3x70-150	20.3-23.5	70-150
NKIT-17.5/3x185-300	24.0-31.0	185-300
NKIT-17.5/3x400-500	31.5-37.0	400-500

18/30(36) kV		
Indoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKIT-36/1x50-95	25.0-29.5	50-95
NKIT-36/1x120-240	30.5-36.5	120-240
NKIT-36/1x300-400	38.0-42.5	300-400
NKIT-36/1x500-630	43.5-48.5	500-630
1x3 cores		
NKIT-36/3x50-95	25.0-29.5	50-95
NKIT-36/3x120-240	30.5-36.5	120-240
NKIT-36/3x300-400	38.0-42.5	300-400

- Cable insulation outer diameter is a key factor for selecting the correct cable accessories.
- The product selection is based on IEC standard cables.

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AC withstand voltage test	27kV 5min	39kV 5min	54kV 5min	81kV 5min
Impulse voltage withstand	±75kV each polarity 10 times	±95kV each polarity 10 times	±125kV each polarity 10 times	±170kV each polarity 10 times

Dimensions

6/10(12) kV		
Outdoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKOT-12/1x25-50	12.0-16.0	25-50
NKOT-12/1x70-150	17.6-22.8	70-150
NKOT-12/1x185-300	24.0-31.0	185-300
NKOT-12/1x400-500	31.5-37.0	400-500
NKOT-12/1x630	38.0-41.9	630
1x3 cores		
NKOT-12/3x25-50	12.0-16.0	25-50
NKOT-12/3x70-150	17.6-22.8	70-150
NKOT-12/3x185-300	24.0-31.0	185-300
NKOT-12/3x400-500	31.5-37.0	400-500

12/20(24) kV		
Outdoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKOT-24/1x25-50	17.5-20.3	25-50
NKOT-24/1x70-150	21.5-26.5	70-150
NKOT-24/1x185-300	27.5-33.0	185-300
NKOT-24/1x400-500	34.2-39.5	400-500
NKOT-24/1x630	40.5-43.0	630
1x3 cores		
NKOT-24/3x25-50	17.5-20.3	25-50
NKOT-24/3x70-150	21.5-26.5	70-150
NKOT-24/3x185-300	27.5-32.8	185-300
NKOT-24/3x400-500	33.5-39.5	400-500

8.7/15(17.5) kV		
Outdoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKOT-17.5/1x25-50	16.0-19.5	25-50
NKOT-17.5/1x70-150	20.3-23.5	70-150
NKOT-17.5/1x185-300	24.0-31.0	185-300
NKOT-17.5/1x400-500	31.5-37.0	400-500
NKOT-17.5/1x630	38.0-41.9	630
1x3 cores		
NKOT-17.5/3x25-50	16.0-19.5	25-50
NKOT-17.5/3x70-150	20.3-23.5	70-150
NKOT-17.5/3x185-300	24.0-31.0	185-300
NKOT-17.5/3x400-500	31.5-37.0	400-500

18/30(36) kV		
Outdoor Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core		
NKOT-36/1x50-95	25.0-29.5	50-95
NKOT-36/1x120-240	30.5-36.5	120-240
NKOT-36/1x300-400	38.0-42.5	300-400
NKOT-36/1x500-630	43.5-48.5	500-630
1x3 cores		
NKOT-36/3x50-95	25.0-29.5	50-95
NKOT-36/3x120-240	30.5-36.5	120-240
NKOT-36/3x300-400	38.0-42.5	300-400

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AC withstand voltage test	27kV 5min	39kV 5min	54kV 5min	81kV 5min
Impulse voltage withstand	±75kV each polarity 10 times	±95kV each polarity 10 times	±125kV each polarity 10 times	±170kV each polarity 10 times

Dimensions

6.35/11(12) kV			12/20(24) kV		
Joint	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)	Joint	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core			1x1 core		
NKSJ-12/1x25-50	12.0-16.0	25-50	NKSJ-24/1x25-50	17.5-20.3	25-50
NKSJ-12/1x70-150	17.6-22.8	70-150	NKSJ-24/1x70-150	21.5-26.5	70-150
NKSJ-12/1x185-300	24.0-31.0	185-300	NKSJ-24/1x185-300	27.5-33.0	185-300
NKSJ-12/1x400-500	31.5-37.0	400-500	NKSJ-24/1x400-500	34.2-39.5	400-500
NKSJ-12/1x630	38.0-41.9	630	NKSJ-24/1x630	40.5-43.0	630
1x3 cores			1x3 cores		
NKSJ-12/3x25-50	12.0-16.0	25-50	NKSJ-24/3x25-50	17.5-20.3	25-50
NKSJ-12/3x70-150	17.6-22.8	70-150	NKSJ-24/3x70-150	21.5-26.5	70-150
NKSJ-12/3x185-300	24.0-31.0	185-300	NKSJ-24/3x185-300	27.5-32.8	185-300
NKSJ-12/3x400-500	31.5-37.0	400-500	NKSJ-24/3x400-500	33.5-39.5	400-500

8.7/15(17.5) kV			18/30(36) kV		
Joint	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)	Joint	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
1x1 core			1x1 core		
NKSJ-17.5/1x25-50	16.0-19.5	25-50	NKSJ-36/1x50-95	25.0-29.5	50-95
NKSJ-17.5/1x70-150	20.3-23.5	70-150	NKSJ-36/1x120-240	30.5-36.5	120-240
NKSJ-17.5/1x185-300	24.0-31.0	185-300	NKSJ-36/1x300-400	38.0-42.5	300-400
NKSJ-17.5/1x400-500	31.5-37.0	400-500	NKSJ-36/1x500-630	43.5-48.5	500-630
NKSJ-17.5/1x630	38.0-41.9	630	1x3 cores		
1x3 cores			NKSJ-36/3x50-95	25.0-29.5	50-95
NKSJ-17.5/3x25-50	16.0-19.5	25-50	NKSJ-36/3x120-240	30.5-36.5	120-240
NKSJ-17.5/3x70-150	20.3-23.5	70-150	NKSJ-36/3x300-400	38.0-42.5	300-400
NKSJ-17.5/3x185-300	24.0-31.0	185-300			
NKSJ-17.5/3x400-500	31.5-37.0	400-500			

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- The product selection is based on IEC standard cables.

Technical Performances

Test Sequence	Test Item	Requirement (EN50393)	Remarks
1	Impulse withstand voltage test	20 kV ±10	PASS
2	AC withstand voltage test	4 kV, 1 min	PASS
3	Insulation resistance	≥ 50 MΩ	PASS

Dimensions

0.6/1.0(1.2) kV Heat Shrink Termination		
Termination	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
NLVT-1.2/4×1.5-10	2.95-5.6	1.5-10
NLVT-1.2/4×16-50	6.4-10.0	16-50
NLVT-1.2/4×70-150	11.5-16.9	70-150
NLVT-1.2/4×185-400	18.5-26.5	185-400
0.6/1.0(1.2) kV Heat Shrink Joint		
Joint	Cable Insulation OD (mm)	Cable Conductor Cross-section(mm ²)
NLVJ-1.2/4×1.5-10	2.95-5.6	1.5-10
NLVJ-1.2/4×16-50	6.4-10.0	16-50
NLVJ-1.2/4×70-150	11.5-16.9	70-150
NLVJ-1.2/4×185-400	18.5-26.5	185-400

- Cable insulation outer diameter is a key factor for selecting the correct cable accessories.
- Customized products are available for 1 to 5 core cables.
- Terminations and joints for 1-core cables can accommodate conductor cross-sections up to 1000 mm².

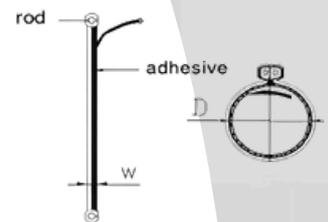


Technical Performances

Properties	Test Condition and Method	Requirement
Bursting Strength	Test Temp: 23 ±5°C	15MPa min.
Thermal Ageing	168 hrs at 150°C±2°C	13.7MPa min
Bursting strength	After free shrinkable	14MPa min
Dielectric strength	Electrode Surface Dia: 6mm Wight: 50±2gms Voltage steps: 2kV/20sec	Min 12kV/mm
Split Resistance	Temp: 200±2°C Test time 23±3°C	No split Propagation
Carbon Content UV Res of Out/layer	Heating rate: 20°C/min Gas flow rate: 300cc/min	Min 2.6±0.25%
Cold CrackResistance	Test temp ≤ -40°C	No cracking
Resistance to aggressive Media Bursting Strength	Test media: Fuel oil, petroleum jelly Test temp: 70±2°C	Min 13.7MPa
Environmental Stress cracking	10% Igepal Co 630 solution immersion Time 30 days Test Temp: 50±3°C	No cracking
Temp. indicating paint conversion	Completely conversion	Completely conversion
Properties of adhesive		
Adhesive Softening Point	ASTM E28	90±10°C
Peel Strength	-PE at 23±2°C -Pb at 23±2°C	Min 70N
Shear Strength	At 23±2°C Copper Mirror test Test time: 16hrs Test temp: 60±°C	Min 100N
Corrosive Effect	ASTM D 1693	No effect

Dimensions

Size (mm)	Supplied(mm)		Recovered (mm)		Standard Length
	D*(mm)	W*(Min.)	d*(Max.)	w*(Min.)	L(mm)
36/10	38	0.7	10	3.2	500, 750, 1000, 1500
55/13	57	0.7	13	3.2	500, 750, 1000, 1500
85/20	85	0.7	20	3.2	500, 750, 1000, 1500
108/27	110	0.7	27	3.2	500, 750, 1000, 1500
136/30	138	0.7	30	3.2	500, 750, 1000, 1500
180/50	183	0.7	50	3.2	500, 750, 1000, 1500



D* = Diameter as supplied
d* = Diameter after recovered
W* = Thickness of sleeve as supplied
w* = Thickness of sleeve after fully recovered