



NKT Screened Elbow Connectors For Type C Interfaces

DS0037 R3 NKT Screened Elbow Connectors 10/2024

Our brand partner NKT manufactures a wide range of cables and cable accessories and is the leading supplier of medium voltage screened connectors across much of Australasia.

NKT was the first to manufacture silicone rubber cable terminations and now has 50 years' experience, in applications up to 400 kV.

The CB range of screened T-connectors are made of silicone rubber for connecting to medium voltage switchgear, RMU's and transformers fitted with Type C bushings according to EN 50180/50181.

The silicone rubber grade used in CB connectors is durable, UV and ozone resistant, waterproof, non-flammable, self-extinguishing and heat resistant.

Together with its excellent mechanical and electrical properties, this makes it the preferred material for 11-33 kV screened connectors.

In addition to offering high quality electrical insulation and superior corona and tracking resistance, the elasticity of silicone rubber facilitates a wide application range for each CB size. So, one product can be used for many different conductor cross-sections.

The Type C bolted connection type is secure and safe and is very widely used, with sizes available up to 1000 mm². Installation is straightforward and fast, requiring no special tools.

The outer screen is a fully bonded conductive layer specially developed by NKT for long term reliability. Operation is maintenance free.

Coupling Connectors (CC range) are available for each screened T-connector.

Screened connectors for interface Sizes A, B and F are also available.

NKT Screened Connectors for Type C Interface

Hiko Code	System Voltage			Application Range				Dimensions	
				Cross Section ¹ (mm)		Insulation Diameter (mm)			
T-connector	11kV	22kV	33kV	Min	Max	Min	Max	Approx length ² (mm)	Approx depth ³ (mm)
NKT2632142HNZ	✓				95			245	190
		✓		25	70	12.7	25.0		
NKT2632143HNZ	✓			95	300	17.0	32.6		
NKTCB12630N6	✓			400	500	28.9	40.0	385	
NKT2632145HNZ		✓		95	300	21.2	34.6	245	190
NKTCB241250P7	✓	✓		400	630	34.0	45.6	385	
NKT2633116HNZ			✓	25	35	17.0	24.3	245	190
NKT2633117HNZ			✓	50	150	21.2	33.6		
NKT2633120HNZ			✓	150	300		40.0		
NKT2633133HNZ			✓	300	400	28.9	44.0		
NKTCB361250N7			✓	400	500	34.0	45.6	385	190
NKTCB361250P8			✓	400	630				
NKTCB421250R8			✓	630	800	39.1	51.0	440	200
NKTCB421250S9			✓	630	1000	45.5	57.8		

Accessories for NKT Screened Connectors

Hiko Code	Description	Max System Voltage (kV)	Notes
NKTCBEAS630	End plug for C-type connectors	33	Fits into front of T-connector (in place of bushing)
NKTCBC40630MI2	End cover for C-type bushings, M12 thread		Fits onto bushing in place of T-connector
NKTCBC40630M16	End cover for C-type bushings, M16 thread		Fits onto bushing in place of T-connector
NKTCBE20M12	Earthing plug for NKTCB12/24/36630 connectors		Fits into back of T-connector to provide earthing point (20 mm dia)
NKTCBE20M16	Earthing plug for NKTCB36/421250 connectors		
NKTCBPAKM12	Test adaptor for NKTCB12/24/36630 connectors		Fits into back of T-connector to provide test point for AC, DC, VLF testing
NKTCBPAKM16	Test adaptor for NKTCB36/421250 connectors		
NKTPASTE	Assembly paste (60 g tube)	-	Always use the correct assembly paste
NKTTBOLT12	Threaded bolt for NKTCC12/24/36630 coupling connectors	33	Single piece
NKTTBOLT16	Threaded bolt for NKTCC36/421250 coupling connectors	33	Single piece
NKTCBBPLUG24M12	NKT M12 insulating plug for CB24-630	22	Set of three
NKTCBBPLUG36M12	NKT M12 insulating plug for CB36-630	33	Set of three
NKTCBBPLUG36M16	NKT M16 insulating plug for CB36/42-630(1250)	33	Set of three

Notes

1. Maximum size is for AL or CU RMV conductor
2. From bushing centre line to end of stress cone
3. From mounting face to back plug cover

Other literature available on request

Reports, drawings, technical data sheets, installation instructions, O&M guidelines