

# NKT Screened Elbow Connectors for Type C Interfaces

NKT product type CB



**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 mm<sup>2</sup>. 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

Product Code	System Voltage			Application range				Dimensions	
	11kV	22kV	33kV	Cross section <sup>1</sup> , mm		Insulation diameter, mm		Approx length <sup>2</sup>	Approx depth <sup>3</sup>
				Min	Max	Min	Max	mm	mm
T-connector									
NKT2632142HNZ	✓			25	95	12.7		245	190
		✓	70		25.0				
NKT2632143HNZ	✓			95	300	17.0			
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	28.9	40.0		
NKT2633133HNZ			✓	300	400		44.0		
NKTCB361250N7			✓	400	500	34.0	45.6	385	190
NKTCB361250P8			✓	400	630	39.1	51.0		
NKTCB421250R8			✓	630	800			44.0	200
NKTCB421250S9			✓	630	1000	45.5	57.8		

## Accessories for NKT screened connectors

Product 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)
NKTCBC40630M12	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
4.  $U_c = 6 \text{ kV} / U = 10 \text{ kV} / U_m = 12 \text{ kV}$
5.  $U_c = 12 \text{ kV} / U = 20 \text{ kV} / U_m = 24 \text{ kV}$
6.  $U_c = 18 \text{ kV} / U = 30 \text{ kV} / U_m = 36 \text{ kV}$
7.  $U_c = 20.8 \text{ kV} / U = 36 \text{ kV} / U_m = 42 \text{ kV}$
8. AC withstand 15 min
9. From mounting face to end of arrester (excluding earth stud)
10. Surge arresters also available

