

Ceramic Protection Tubes

MIEPL Make MTT16 Protection Tube of Thermocouple have a ceramic material.

This type of Thermocouple are used in high temperature & corrosive area.



FEATURES

- KER710 Material
- Ceramic Insulator
- Exchangeable insert
- Transmitter mountable
- Adjustable / Fixed connection
- Single / Double protecting tube

APPLICATION

- Reactors
- Glass Industries
- Oil & gas application
- Sulfur recovery plants
- Steel & Power Industries
- Furnaces, Kilns & Ovens

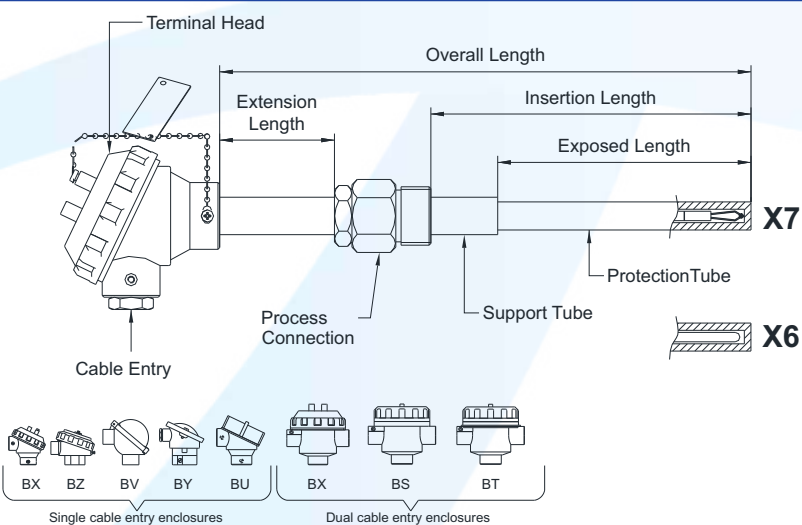
REFERENCE

- IEC-584.2 / ANSI MC-96.1

STANDARD SPECIFICATIONS

Element	: Type R (Pt-13%Rh/Pt)
Element type	: Element with ceramic insulators
Accuracy	: Standard to ISA & ANSI MC96.1
No. of sensors	: Simplex
Hot junction	: Ungrounded
Wire diameter	: 24 AWG (0.511 mm)
Terminal head type	: Screwed Type , Weatherproof, IP-65
Terminal head material	: Die-cast Aluminum
Cable entry	: 3/4" ET (F), 1 No.
Head extension type	: Head with female threading
Support tube material	: AISI 446 SS
Protecting tube material	: KER - 710, Recrystallised Alumina
Protecting tube size (OD X ID)	: 15 x 10 mm
Process connection type	: Adjustable connection
Process connection	: 3/4" NPT (M)
Process connection mat	: ASTM A 105 / Carbon Steel
Overall length / Exposed length	: 500 mm / 300 mm
Extension Length	: 100 mm

DRAWING



ORDERING CODE

MTT16 - k - X7 - P - V - U - MQ - M60 - A24 - BZ

1. ELEMENT	Type K (NiCr-Ni)	K									
	Type N (NiCrSi-NiSi)	N									
	Type R (Pt-13%Rh/Pt)	R									
	Type S (Pt-10%Rh/Pt)	S									
	Type B (Pt/30%Rh-Pt/6%Rh)	B									
2. ELEMENT TYPE	Mineral insulated	X6									
	Element with ceramic insulator	X7									
3. ACCURACY	Standard		P								
	Special		Q								
4. NO. OF SENSORS	Simplex			V							
	Triplex			X							
	Duplex			W							
5. HOT JUNCTION	Ungrounded				U						
	Grounded				G						
6. SHEATH MATERIAL	Inconel 600					MQ					
7. SHEATH DIAMETER (For X6)	3.0 mm							M30			
	5.0 mm							M50			
	6.0 mm							M60			
	8.0 mm							M80			
	10.0 mm							M10			
	12.0 mm							M12			
8. SHEATH DIAMETER (For X7)	24 AWG (0.511 mm)									A24	
	25 AWG (0.455 mm)									A25	
	26 AWG (0.404 mm)									A26	
	27 AWG (0.361 mm)									A27	
9. HEAD ENCLSURE	WP, IP 65, threaded cover										BZ
	WP, IP 67, threaded cover										BX
	Flame proof, IP 67, Gr IIA, IIB										BS
	Explosion proof, IP 67, Gr IIC										BT
	WP, IP 65, Hinged type										BV
	WP, IP 65, cover fitted with 2 screws										BY
	Ex-Proof to CSA,FM,ATEX [Ex-d]										BU

ORDERING CODE

		ML	CO	M6	P7
10. ENCLOSURE MATERIAL	Die-cast aluminum	ML			
	AISI 304 SS	MC			
	AISI 316 SS	MF			
11. CABLE ENTRY	¾" ET (F), 1 No.		C0		
	½" NPT (F), 1 No.		C1		
	M20 x 1.5mm (F), 1 No.		C2		
	¾" NPT (F), 1 No.		C3		
	¾" ET (F), 2 Nos.		C5		
	½" NPT (F), 2 Nos.		C6		
	M20 x 1.5mm (F), 2 Nos.		C8		
	¾" NPT (F), 2 Nos.		C9		
12. SUPPORT TUBE MATERIAL	AISI 316 SS			MF	
	AISI 316L SS			MG	
	AISI 310 SS			ME	
	Inconel 600			MQ	
	AISI 446 SS			M6	
13. INNER PROTECTION TUBE MATERIAL	KER - 610, Pythagoras			P6	
	KER - 710, Recrystallised Alumina			P7	
14. INNER PROTECTION TUBE SIZE	Ø6 X 1.0 mm thk			T06	
	Ø8 X 1.5 mm thk			T08	
	Ø10 X 2.0 mm thk			T10	
	Ø12 X 2.0 mm thk			T12	
15. OUTER PROTECTION TUBE MATERIAL	KER - 610, Pythagoras				P6
	KER - 710, Recrystallised Alumina				P7
	Kanthal AF				P3
	Kanthal APM				P4
	Inconel 600				MQ
	Silicon Carbide				Sic
	Silicon Nitride				Sin
	Cast Iron (Barstock)				MM

ORDERING CODE

				T50	AC	5NM	MB
16. OUTER PROTECTION TUBE SIZE	Ø6 X 1.0 mm thk			T06			
	Ø8 X 1.5 mm thk			T08			
	Ø10 X 2.0 mm thk			T10			
	Ø12 X 2.0 mm thk			T12			
	Ø15 X 2.5 mm thk			T50			
	Ø20 X 2.5 mm thk			T20			
	Ø24 X 3.0 mm thk			T24			
17. PROCESS CONNECTION TYPE	Adjustable connection				AC		
	Fixed connection				FC		
18. PROCESS CONNECTION	1.5" RF 150# as per ANSI B 16.5					A25	
	1.5" RF 300# as per ANSI B 16.5					A26	
	1.5" RF 600# as per ANSI B 16.5					A27	
	2" RF 150# as per ANSI B 16.5					A31	
	2" RF 300# as per ANSI B 16.5					A32	
	2" RF 600# as per ANSI B 16.5					A33	
19. PROCESS CONNECTION MATERIAL	ASTM A 105 / Carbon Steel						MB
	AISI 316 SS						MF
20. OVERALL / EXPOSED	50 mm up to 2,000 mm					XXXX/XXXX	
21. INSERTION / EXPOSED	50 mm up to 2,000 mm					XXXX/XXXX	
22. EXTENSION LENGTH (XL)	50 mm up to 250 mm						xxx
23. OTHER OPTIONS	Calibration Certificate	SB	SC, cable gland, AISI 316 SS WP				JH
	Tag plate, AISI 304 SS	WF	DC, cable gland, AISI 316 SS WP				JI
	SC, cable gland, Ni-brass WP	JD	SC, cable gland, AISI 316 SS FP				JN
	DC, cable gland, Ni-brass WP	JE	DC, cable gland, AISI 316 SS FP				JO
	SC, cable gland, Ni-brass FP	JJ	Plug fitting for CE, AISI 304 SS				JB
	DC, cable gland, Ni-brass FP	JK	Plug fitting for CE, AISI 316 SS				JC
	SC, cable gland, AISI 304 SS WP	JF	Plug fitting for CE, Aluminum				JU
	DC, cable gland, AISI 304 SS WP	JG	SS base plate for transmitter				JS
	SC, cable gland, AISI 304 SS FP	JL	Head mount transmitter				JT
	DC, cable gland, AISI 304 SS FP	JM					
Ordering Example MTT16 - K - X7 P - V - U - MQ - M60 - A24 - BZ - ML - CO - M6 - P7 - T50 - AC - A25 - MB							
1. Other sheath diameters, connections are available, please contact factory for details..							
2. WP = Weatherproof, FP = Flame proof, SC = Single Compression, DC = Double Compression, CE = Cable Entry							
3. Transmitter output shall be 4...20 mA as standard, any other output required, please contact factory for details.							