

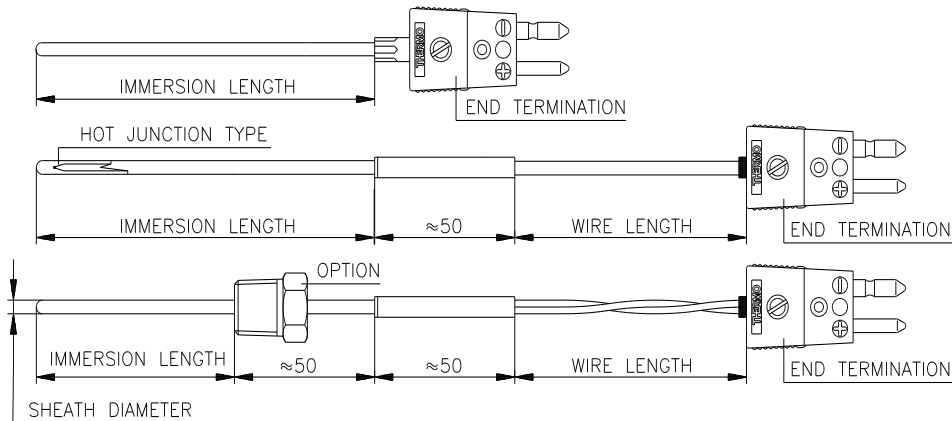
T MINIATURE MI-CABLE THERMOCOUPLES

mineral insulated cable

T Miniature Thermocouple (Mineral Insulated Cable)									
Code Calibration		Code Calibration		Code Calibration		Code Calibration		Code Calibration	
J	Iron - Constantan	N	Nicrosil - Nisil	K	Chromel - Alumel	S	Pt - Pt/10%Rh	T	Copper - Constantan
E	Chromel - Constantan	R	Pt - Pt/13%Rh						
(EMF Values as per IEC 60584-1 unless otherwise noted.)									
Code Class		Code Class		Code Class		Code Class		Code Class	
1	Class 1, IEC 60584 colour coded	4	Standard limits of error, ASTM E230/ANSI MC96.1 colour coded	5	Special limits of error, ASTM E230/ANSI MC96.1 colour coded				
2	Class 2, IEC 60584 colour coded								
(Tolerances as per IEC 60584-1, S & R only available in class 2 and ASTM/ANSI colour coding)									
Code Sheath Diameter		Code Sheath Diameter		Code Sheath Diameter		Code Sheath Diameter		Code Sheath Diameter	
B	0,25 mm	F	1,6 mm (1/16")	L	4,5 mm	M	4,8 mm (3/16")	N	6,0 mm
C	0,5 mm (1/50")	G	2,0 mm	P	6,4 mm (1/4")				
D	1,0 mm (1/25")	J	3,0 mm						
E	1,5 mm	K	3,2 mm (1/8")						
Code Hot Junction		Code Hot Junction		Code Hot Junction		Code Hot Junction		Code Hot Junction	
1	Single insulated	5	Duplex individually insulated						
2	Single grounded	6	Duplex common insulated						
3	Single insulated reduced tip	7	Duplex grounded						
4	Single grounded reduced tip	8	Duplex individually insulated reduced tip						
		9	Duplex grounded reduced tip						
(Reduced tip length will be 25 mm)									
Code Sheath Material		Code Sheath Material		Code Sheath Material		Code Sheath Material		Code Sheath Material	
A	SS304	J, K, T							
B	SS316	J, K, T, E							
C	SS310	K							
D	SS321	J							
H	Inconel 600	K, S*, R*, N							
K	Nicrobel C	K, N							
N	NiCroSil	N							
* In combination with thermocouple type S and R, max. recommended service temperature 850°C due to drift in calibration which occurs at high temperature									
Immersion Length Specify immersion length in mm. Always use 4 characters including leading zero's. 10 meters and above use "m" as 3rd digit. 100 meters and above use "m" as 4th digit.									
Code Wire Type		Code Wire Type		Code Wire Type		Code Wire Type		Code Wire Type	
A	P/TW	J,K,T		F	HF/D	J,K,T,E			
B	P/PTW	K		H	Flexible Armour + TEX/TW	J,K,T,S,R,E			
C	P/CuPTW	J,K,T		J	G/GS	J,K,T			
D	TEX/TW	J,K,T,S,R,E		K	G/G	J,K,T,E			
E	TEX/CuTEXTW	J,K,T,S,R,E,N		X	No lead wire				
Wire Length Specify wire length in mm. Always use 4 characters including leading zero's. 10 meters and above use "m" as 3rd digit. 100 meters and above use "m" as 4th digit. (Enter '0000' when no wire is selected, e.g. 300mm=0300 and 11.600mm=11m6)									
Code End Termination (Connectors)		Code End Termination (Connectors)		Code End Termination (Connectors)		Code End Termination (Connectors)		Code End Termination (Connectors)	
A	Bare ends	M	High Temp. miniature male						
B	Standard male	N	High Temp. miniature female						
C	Standard female	P	Lemo size 0 female						
D	High Temp. standard male	Q	Lemo size 1 female						
E	High Temp. standard female	R	Lemo size 2 female						
F	Ceramic male	S	Lemo size 0 male						
G	Ceramic female	T	Lemo size 1 Male						
H	Phenolic standard male	U	Lemo size 2 male						
J	Phenolic standard female	V	Junction Box connector ¹						
K	Miniature male								
L	Miniature female								
^{(1) For flexible armour only}									
Code Options		Code Options		Code Options		Code Options		Code Options	
X	No option								
A	Wire clamp bracket								
B	Bracket with fitting								
C	Moisture proof jacket ²								
D	Spring on transition								
E	Pot seal M 8 x 1 + locknuts ³								
^(2) Only for standard & miniatur, ³ only for Ø 1,5 to 3,0 mm sheath dia.)									
L	Fixed plug 1/2"BSPP (SS316)								
R	Ceramo out of one batch (at extra cost)								
BLACK CODES ARE STANDARD COMBINATIONS									
T									
Your ordering code									
B/100 rv3 02-04-2025									

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Hot junction

1		4 ⁴		7	
2		5		8 ⁴	
3 ⁴		6		9 ⁴	

⁽⁴⁾ reductions: 1 → 0,5 - 1,5/1,6 → 1,0 - 2,0 → 1,0 - 3,0/3,2 → 1,6 - 4,8 → 3,2 - 6/6,4 → 3,2)

Wire type:

A	P/TW : PVC insulated single	F	HF/D : Kapton insulated
B	P/PTW : PVC insulated	G	Si/SiTW : Silicon insulated
C	P/CuPTW : PVC insulated + copper braided	H	Flex. armour + TEX/TW : Flex. armour over Teflon insulated
D	TEX/TW : Teflon insulated	J	G/G : Fibreglass insulated
E	TEX/CuTEXTW : Teflon insulated + copper braided	K	G/GS : Fibreglass ins. + SS overall braiding

End termination

A		K		V ⁵	
B		M			
D		L			
E		N			
		P			
		U			

⁽⁵⁾ For flexible armour only)

Options

A		C		E	
B		6		7	
		D			

⁽⁶⁾ Only for standard & miniature, ⁽⁷⁾ Only for Ø. 1,5 to 3,0 sheath dia.)

Because of the large number of possible combinations, some constructions will be subject to availability of materials and technical feasibility. Please contact Thermo Electric Instrumentation for confirmation. Other calibrations e.g. Tungsten/ Rhenium, diameters e.g. 8,0 mm, sheath materials e.g. Tantalum and special connectors (weather proof), sketch preferred.