



Furnace Technologies supplies a large variety of Thermocouples, Parts and Accessories. Contact us for advice on your specific requirements.

Thermocouple Head and Terminal Block

KNE



KSE



KB



KBS



KD



TL



TS



KF



KI



KT



DANA



NAA



DAAD



MAA



Explosion Proof Certified Thermocouple Heads



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Furnace Technologies Pty Ltd

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Thermocouple Extension Wire



Wire Code	Specification	Description	Temp. Range	
KX-H	0.3 x 2	Glass Fibre	0-200°C	
KX-H	0.6 x 2	Glass Fibre	0-200°C	
KX-H	0.15 x 2	Glass Fibre	0-400°C	
KX-H	0.5 x 2	Glass Fibre	0-400°C	
KX-H	0.8 x 2	Glass Fibre	0-400°C	
KCC-H	4/0.3 x 2	Glass Fibre	0-200°C	
KCC-H	7/0.3 x 2	Glass Fibre	0-200°C	
KCC-H	4/0.6 x 2	Glass Fibre	0-200°C	
FO.6KXH-GAB	0.6 x 2	Glass Fibre SUS 304 Outside Insulation	0-200°C	
FO.6KXH-GSB-BLUE	0.6 x 2	Glass Fibre Copper Wire Outside Insulation	0-200°C	
F4/0.3 x 2KXH-GAB	4/0.3 x 2	Glass Fibre SUS 304 Outside Insulation	0-200°C	
F4/0.3 x 2KXH-GAB-BLUE	4/0.3 x 2	Glass Fibre SUS 304 Outside Insulation	0-200°C	
KCC-G	0.6 x 2	PVC	0-105°C	
KCC-G	4/0.6 x 2	PVC	0-105°C	
KCC-G-IS	4/0.6 x 2	PVC SUS 304 Inside Insulation	0-105°C	
KCC-G	7/0.6 x 2	PVC	0-105°C	
KCC-G-IS	7/0.6 x 2	PVC SUS 304 Inside Insulation	0-105°C	
KCC-G-SOS	7/0.6 x 2	PVC SUS 304 Outside Insulation	0-105°C	
KCC-G	4/0.3 x 2	PVC	0-105°C	
KCC-G	7/0.3 x 2	PVC	0-105°C	
KCC-G-IS	7/0.3 x 2	PVC SUS 304 Inside Insulation	0-105°C	

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Wire Code	Specification	Description	Temp. Range	
KX-F-JIS	0.6 x 2	Teflon	0-200°C	
KX-F-IEC	0.3 x 2	Teflon	0-200°C	
KX-F-IEC	0.6 x 2	Teflon	0-200°C	
KX-F-ANSI	0.125 x 2C	Teflon	0-200°C	
TX-F-ANSI	0.3 x 2C	Teflon	0-200°C	
KX-CF	4/0.3 x 2	Ceramics Fibre	0-1000°C	
KX-KPT	7/0.2 x 2	KAPTON	0-400°C	
JX-H	0.6 x 2	Glass Fibre	0-200°C	
F0.6JXH-GSB	0.6 x 2	Glass Fibre Copper Wire Outside Insulation	0-200°C	
F0.6JXH-GAB	0.6 x 2	Glass Fibre SUS 304 Outside Insulation	0-200°C	
F4/0.3 x 2JXH-GAB	4/0.3 x 2	Glass Fibre SUS 304 Outside Insulation	0-200°C	
JX-G	7/0.3 x 2	PVC	0-105°C	
JX-G	4/0.6 x 2	PVC	0-105°C	
JX-G-IS	4/0.6 x 2	PVC SUS 304 Inside Insulation	0-105°C	
JX-G	7/0.6 x 2	PVC	0-105°C	
JX-G-IS	7/0.6 x 2	PVC SUS 304 Inside Insulation	0-105°C	
JX-F-JIS	0.3 X 2	Teflon	0-200°C	
JX-KPT	7/0.2 X 2	KAPTON	0-400°C	
FEP-FEP	20AWG x 3C	FEP Teflon	0-200°C	
FEP-FEP	24AWG x 3C	FEP Teflon	0-200°C	
FEP-FEP	24AWG x 4C	FEP Teflon	0-200°C	
FEP-FEP	24AWG x 6C	FEP Teflon	0-200°C	
FEP-FEP (I-AG)	24AWG x 3C	Teflon Silver Inside Insulation	0-200°C	
FEP-FEP (I-AG)	24AWG x 6C	Teflon Silver Inside Insulation	0-200°C	
FEP-FEP (I-AL)	24AWG x 3C	Teflon Aluminium Inside Insulation	0-200°C	
FEP-FEP	24AWG x 1	FEP FEP Teflon	0-200°C	
FEP-FEP	24AWG x 1	FEP FEP Teflon	0-200°C	
APPF-SN	7/0.15 x 3	Teflon Tin Inside Insulation	0-200°C	

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Wire Code	Specification	Description	Temp. Range	
AFFP-SN	7/0.15 x 3	Teflon Tin Inside Insulation	0-200°C	
AFFP-AG	07/0.2 x 3	Teflon Silver Inside Insulation	0-200°C	
TX-F-JIS	0.3 x 2	Teflon	0-200°C	
TX-F-JIS	7/0.3 x 2	Teflon	0-200°C	
EX-G-IS	4/0.6 x 2	PVC SUS 304 Inside Insulation	0-105°C	
EX-F-JIS	0.6 x 2	Teflon	0-200°C	
EX-F-JIS	4/0.3 x 2	Teflon	0-200°C	
RCA-G SCA-G	4/0.6 x 2	PVC	0-105°C	
RCA-G-IS SCA-G-IS	4/0.6 x 2	PVC SUS 304 Inside Insulation	0-105°C	

Special Thermocouple Extension Wire



K type

- ◆ KXF-0.2x7-FEP-IS-IEC
- ◆ R-0.65KH2C2-GG-AB
- ◆ TC-KX-2x0.5²-IEC
- ◆ WX-6FGB-J2-SOS-FFR
- ◆ NI-0.22x19x2C-H-SOS

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J type

- ◆ R-0.65JH2C2-GG-AB

J type

- ◆ WPR-G (SOS) 50/0.18 x 4C
- ◆ R type 18AWG x (24/0.2) x 2P

RTD

- ◆ TC-RTD-0.25 x 19 x 3C (FEP-FG-PB-FEP)



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SUS 304 Terminals

Code	Specification						Photo
	Screw Range		Wire Range		Length	Total Length	
	O.D	I.D	O.D	I.D	Tube Length		
304-2.1	10.6	5.2	3.7	2.1	7.7	20	
304-2.6	8.1	4.3	4.1	2.6	8	20.2	
304-3.6	10	5.5	5.2	3.6	4.2	20	
304-3.8	8	5.3	5.3	3.8	8.1	20.3	
304-4.9	10.6	6.4	6.4	4.9	8.1	21	
304-7.3	12.2	8.4	8.8	7.3	9	21	

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Connector



- ◆ Miniature Connector (Thermocouple)
- ◆ Miniature Connector 2 (Thermocouple)
- ◆ Miniature Ceramic Connector (Thermocouple)

- ◆ Standard Connector Solid Pin (Thermocouple)
- ◆ Standard Connector Hollow Pin (Thermocouple)
- ◆ Standard Ceramic Connector (Thermocouple)

- ◆ Miniature Connector OMEGA Resemblance (Thermocouple)
- ◆ Standard Connector OMEGA Resemblance (Thermocouple)
- ◆ Standard Snap-In Panel Jacks (Thermocouples)

- ◆ Mini Connector For RTD

- ◆ Accessories for connectors

- ◆ Connector OMEGA New Products

- ◆ Mini Snap-It OMEGA Connector

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Miniature Connector (Thermocouple)

Diagram	Type	K	E	J	T	
	IEC	Colour	Green	Purple	Black	Brown
		Code	 Male: CMP-KI Female: CMJ-KI	N/A	 Male: CMP-JI Female: CMJ-JI	N/A
	ANSI	Colour	Yellow	Purple	Black	Blue
		Code	 Male: CMP-KA Female: CMJ-KA	N/A	 Male: CMP-JA Female: CMJ-JA	N/A
	DIN	Colour	Green	Black	Blue	Brown
		Code	 Male: CMP-KD Female: CMJ-KD	N/A	 Male: CMP-JD Female: CMJ-JD	N/A

Miniature Connector 2 (Thermocouple)

Type	K	E	J	T	
IEC	Colour	Green	Purple	Black	Brown
	Code	N/A	N/A	 Male AHB-02-J-M-IEC Female AHB-02-J-F-IEC	N/A
ANSI	Colour	Yellow	Purple	Black	Blue
	Code	 Male AHB-02-K-M-ANSI Female AHB-02-K-F-ANSI	N/A	 Male AHB-02-J-M-ANSI Female AHB-02-J-F-ANSI	 Male AHB-02-T-M-ANSI Female AHB-02-T-F-ANSI
DIN	Colour	Green	Black	Blue	Brown
	Code	N/A	 Male AHB-02-E-M-DIN Female AHB-02-E-F-DIN	 Male AHB-02-J-M-DIN Female AHB-02-J-F-DIN	N/A

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Miniature Ceramic Connector (Thermocouple)

Diagram	Type	Colour	K	
	ANSI	Yellow		
		Code	Male	CMPC-KA
			Female	CMJC-KA

Standard Connector Solid Pin (Thermocouple)

Diagram	Type	K		J			
	IEC	Green			Black		
		Code	Male	CSP-JI		Male	CSP-KI
			Female	CSJ-KI		Female	CSJ-JI
		ANSI	Yellow			Black	
	Code		Male	CSP-JA		Male	CSP-KA
			Female	CSJ-KA		Female	CSJ-JA
	DIN		Green			Blue	
		Code	Male	CSP-JD	N/A	Male	CSP-KD
			Female	CSJ-KD		Female	CSJ-KD

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Standard Connector Hollow Pin (Thermocouple)

Diagram	Type		K			J		
	Colour		Green			Black		
	IEC	Colour	Green			Black		
		Code		Male	CSPL-KI		Male	CSPL-JI
	ANSI	Colour	Yellow			Black		
		Code		Male	CSPL-KA		Male	CSPL-JA
	DIN	Colour	Green			Blue		
		Code		Male	CSPL-KD	N/A	Male	CSPL-JD

Standard Ceramic Connector (Thermocouple)

Diagram	Type		K				
	Colour		Green				
	IEC	Colour	Green				
		Code	N/A	Male	CSPC-KI	Female	CSJC-KI
	ANSI	Colour	Yellow				
		Code		Male	CSPC-KA	Female	CSJC-KA
	DIN	Colour	Green				
		Code	N/A	Male	CSPC-KD	Female	CSJC-KD

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Miniature Connector OMEGA (Thermocouple)

Diagram	Type	K	E	J	T	N	
	IEC	Colour	Green	Purple	Black	Brown	Pink
		Code	 Male: SMPW-K-M-C-IEC Female: SMPW-K-F-C-IEC	 Male: SMPW-E-M-C-IEC Female: SMPW-E-F-C-IEC	 Male: SMPW-J-M-C-IEC Female: SMPW-J-F-C-IEC	N/A	N/A
	ANSI	Colour	Yellow	Purple	Black	Blue	Orange
		Code	 Male: SMPW-K-M-C-ANSI Female: SMPW-K-F-C-ANSI	 Male: SMPW-E-M-C-ANSI Female: SMPW-E-F-C-ANSI	 Male: SMPW-J-M-C-ANSI Female: SMPW-J-F-C-ANSI	 Male: SMPW-T-M-C-ANSI Female: SMPW-T-F-C-ANSI	 Male: SMPW-N-M-C-ANSI Female: SMPW-N-F-C-ANSI
	DIN	Colour	Green	Black	Blue	Brown	
		Code	 Male: SMPW-K-M-C-DIN Female: SMPW-K-F-C-DIN	 Male: SMPW-E-M-C-DIN Female: SMPW-E-F-C-DIN	 Male: SMPW-J-M-C-DIN Female: SMPW-J-F-C-DIN	N/A	N/A

Standard Connector OMEGA (Thermocouple)

Diagram	Type	K	E	J	T	N	
	IEC	Colour	Green	Purple	Black	Brown	Pink
		Code	N/A	N/A	 Male: OSTW-J-M-C-IEC Female: OSTW-J-F-C-IEC	 Male: OSTW-T-M-C-IEC Female: OSTW-T-F-C-IEC	 Male: OSTW-N-M-C-IEC Female: OSTW-N-F-C-IEC
	ANSI	Colour	Yellow	Purple	Black	Blue	Orange
		Code	 Male: OSTW-K-M-C-ANSI Female: OSTW-K-F-C-ANSI	N/A	 Male: OSTW-J-M-C-ANSI Female: OSTW-J-F-C-ANSI	 Male: OSTW-T-M-C-ANSI Female: OSTW-T-F-C-ANSI	 Male: OSTW-N-M-C-ANSI Female: OSTW-N-F-C-ANSI
	DIN	Colour	Green	Black	Blue	Brown	
		Code	N/A	 Male: OSTW-E-M-C-DIN Female: OSTW-E-F-C-DIN	 Male: OSTW-J-M-C-DIN Female: OSTW-J-F-C-DIN	 Male: OSTW-T-M-C-DIN Female: OSTW-T-F-C-DIN	N/A

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Standard Snap-in Panel Jacks

Diagram		Type	K	
		K	Colour	Yellow
			Code	Female: SPJ-K-F-C

Mini Connector for RTD

Photo	Type	J		
	RTD	Colour	Yellow	
		Code	Male	MTP-U-M-C
			Female	MTP-U-F-C

Miniature Connector OMEGA (RTD)

Diagram	Type	K		
	Ω	Colour	White	
		Code	Male	MTP-U-M-C
			Female	MTP-U-F-C

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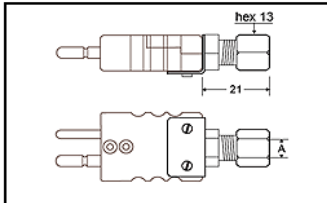
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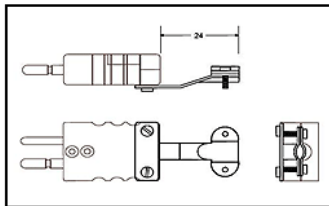


Accessories for Connectors



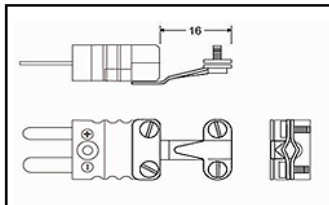
Tube Adapter (for Standard Connectors)

- **Application** : Can be used to mount the connector on mineral insulated cable or a tube type thermocouple. Can be used several times if not overtightened.
- **Construction** : Nickel plated.
- **Part NO** : Dim A (mm)
 A-20.154-1 1.7
 A-20.154-2 3.3
 A-20.154-3 4.9
 A-20.154-4 6.5"



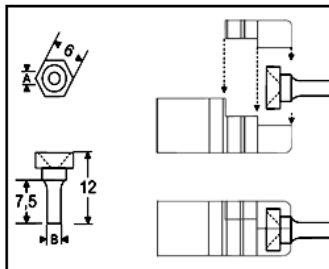
Wire Clamp Bracket (for Standard Connectors)

- **Application** : Wire clampbracket will provide optimum strainrelief. Construction allows a large difference in maximum and minimum wire diameter.
- **Construction** : Nickel plated.
- **Part No** : A-20.055-1



Wire Clamp Bracket (for Miniature Connectors)

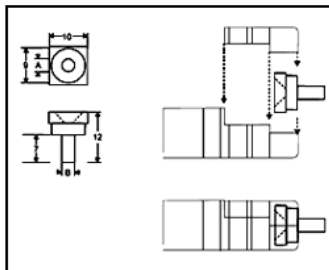
- **Application** : Wire clampbracket will provide optimum strainrelief. Construction allows a large difference in maximum and minimum wire diameter.
- **Construction** : Nickel plated
- **Part No** : A-20.050-1



Crimp Insert

- **Application** : Designed for soldering or crimping on mineral insulated cable or crimping on insulated wire.
- **Construction** :
 ☉Brass machined insert with 0.1 mm tolerance on the cable OD.
 ☉Brass with Nickel Plated 銅鍍鎳

Part No.	Dim A (mm)	Dim B (mm)
A-20.024-1	1.1	2.4
A-20.024-2	1.6	2.4
A-20.024-3	1.7	2.4
A-20.024-4	2.1	3.2
A-20.024-5	2.4	3.2
A-20.024-6	3.1	4.5
A-20.024-7	3.3	4.5



Crimp Insert

- **Application** : Designed for soldering or crimping on mineral insulated cable or crimping on insulated wire.
- **Construction** :
 ☉Brass machined insert with 0.1 mm tolerance on the cable OD.
 ☉Brass with Nickel Plated 銅鍍鎳

Part No.	Dim A (mm)	Dim B (mm)
A-20.025-2	1.6	2.4
A-20.025-4	2.1	3.2
A-20.025-5	2.4	3.2
A-20.025-6	3.1	4.3
A-20.025-7	3.3	4.3
A-20.025-8	4.6	6.0
A-20.025-10	6.1	7.9
A-20.025-11	6.5	7.9

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Connector OMEGA New Products

Photo	Type	K	
	Colour	Yellow	
	Ω	Male	OHB-TTS-15-M
	Code	Female	OHB-TTS-15-F

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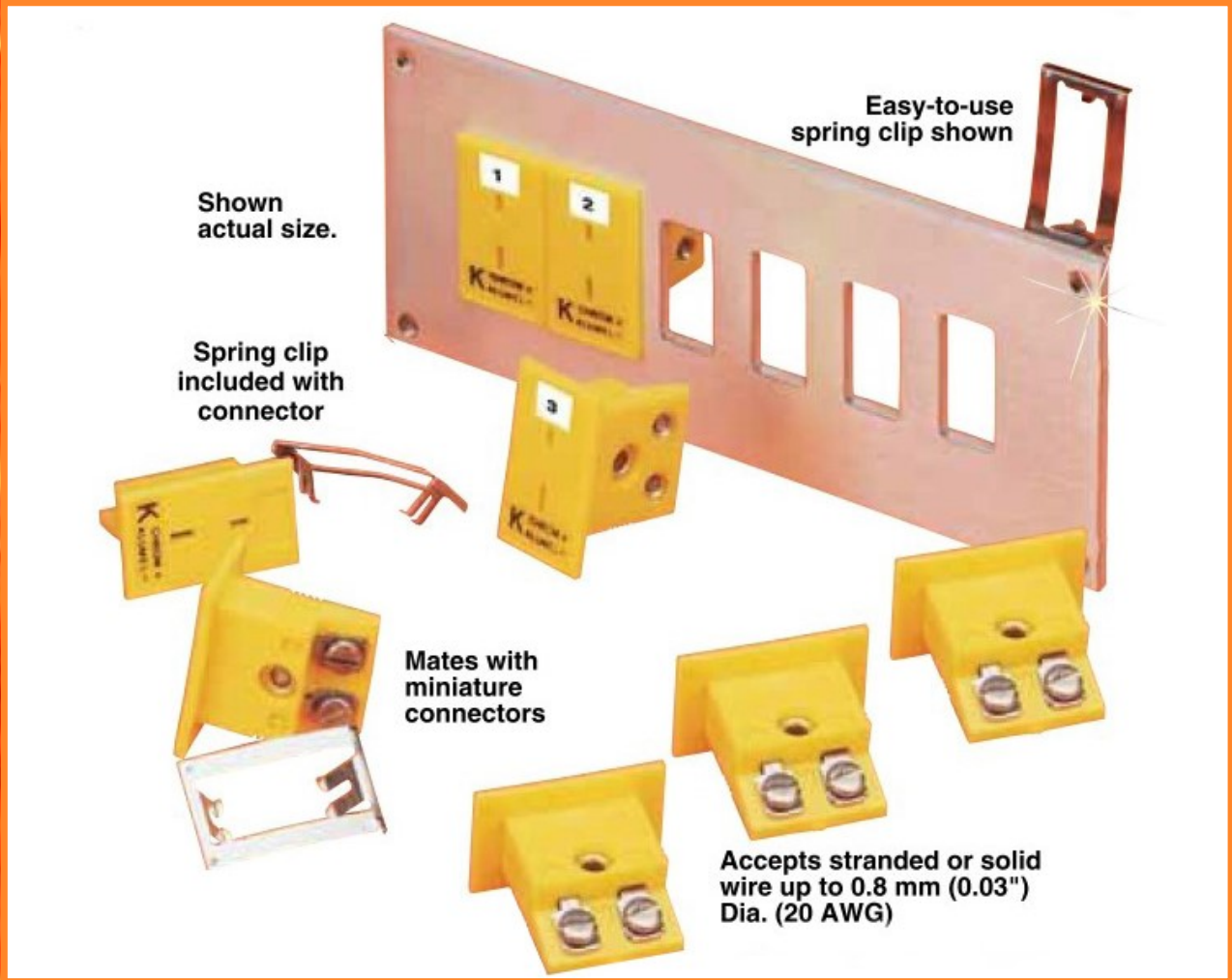
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Mini Snap-In OMEGA Connector (MPJ-K-F)



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