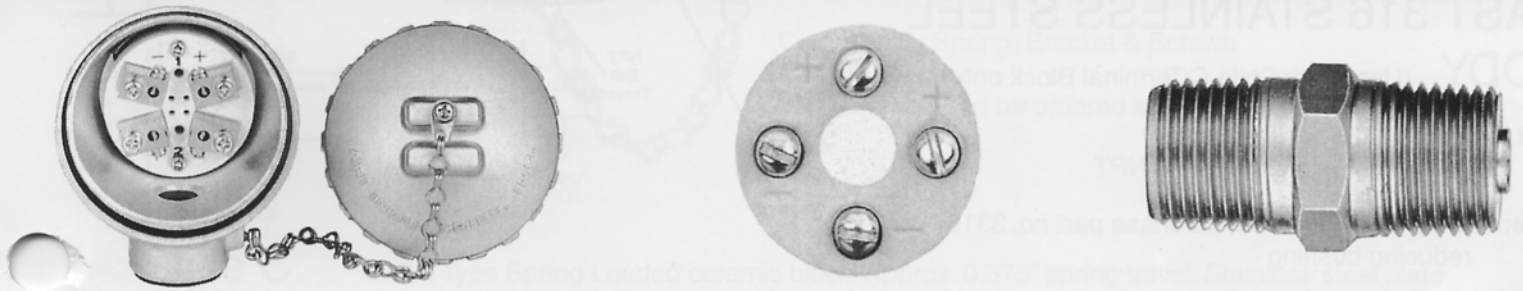




ARI Industries Inc

HARDWARE
THERMOCOUPLE/RTD
ACCESSORIES

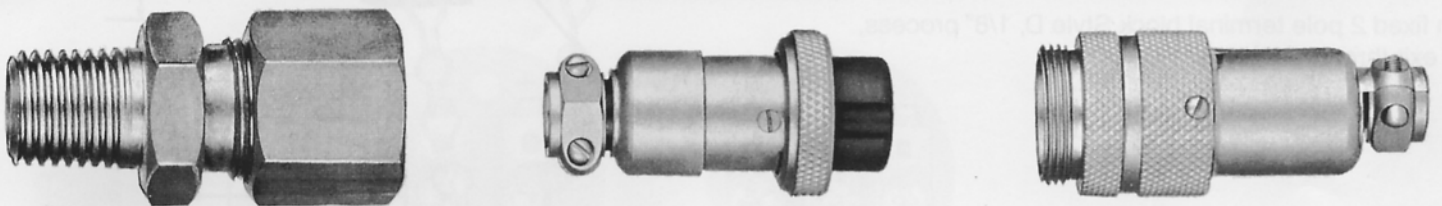


CONNECTORS

CONNECTION HEADS

COMPRESSION FITTINGS

THERMOCOUPLE LEAD WIRE



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BULLETIN 6.0

OCT. 98

CONNECTION HEADS

ARi Type E Heads

STANDARD SIZE

DIE CAST ALUMINUM BODY

WITH GRAY ENAMEL COATING

Part No.	47003	(ARi Logo)
		3/4" X 3/4" NPT
	47053	(No Logo)
		3/4" X 3/4" NPT
	47052	(No Logo)
		1/2" X 1/2" NPT

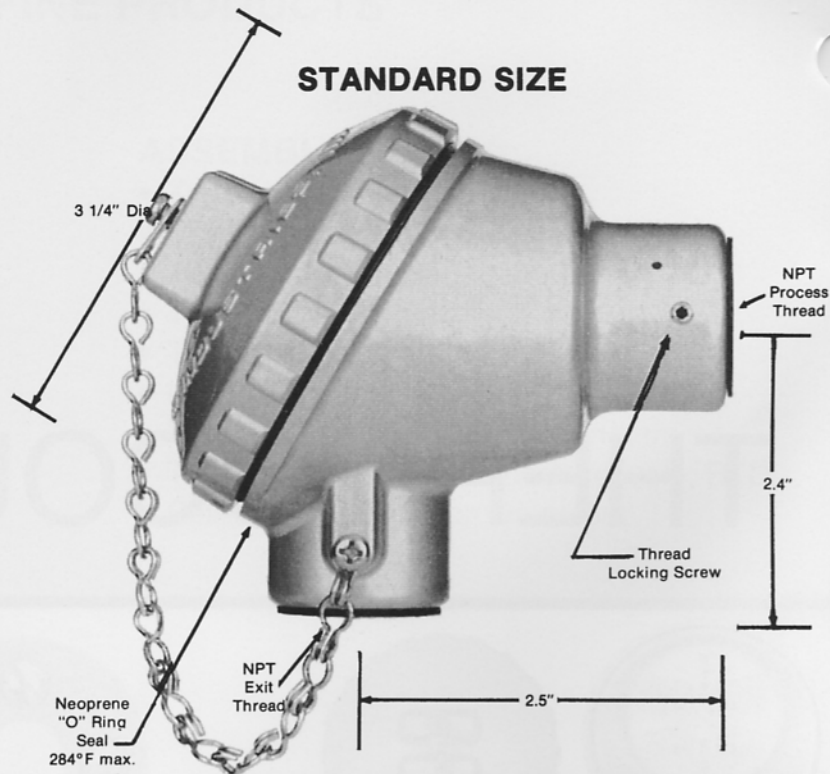
CAST IRON BODY

Part No.	47021	(ARi Logo)
		3/4" X 3/4" NPT

CAST 316 STAINLESS STEEL BODY (Used with Style C Terminal Block only)

Part No.	47056	(No Logo)
		3/4" X 3/4" NPT

Note: If 1/2" NPT required, purchase part no. 33157 reducing bushing



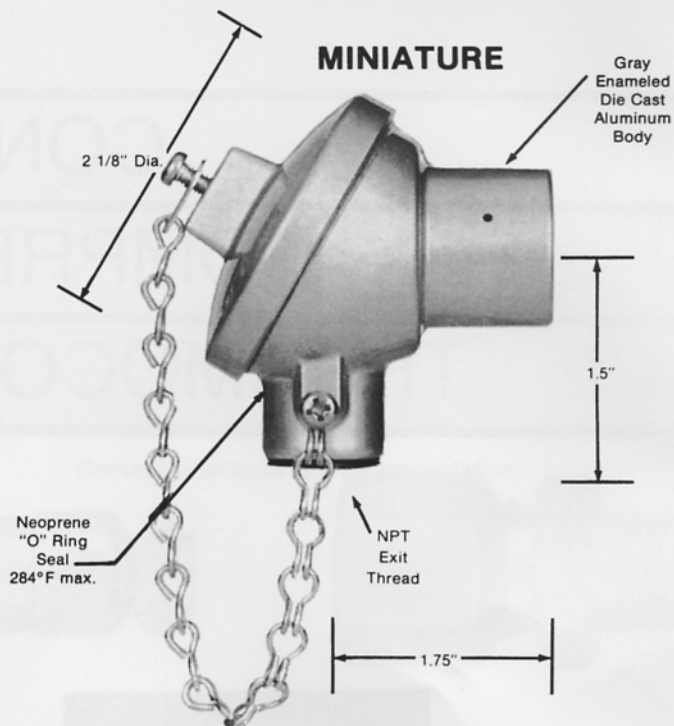
MINIATURE SIZE

Part No. 31146

With fixed 3 pole terminal block Style D, 1/8" process, 1/4" exit threads.

Part No. 31147

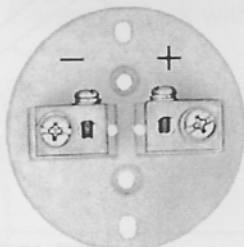
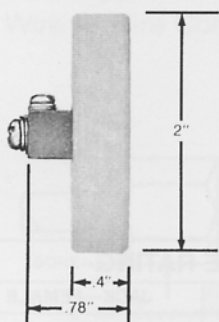
With fixed 2 pole terminal block Style D, 1/8" process, 1/4" exit threads.



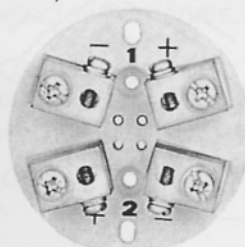
TERMINAL BLOCKS

Style A

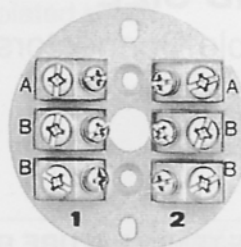
Fixed ceramic block with plated brass terminals. Supplied with two mounting screws. Used with connection heads 47003, 47053, 47052 and 47021.



2 Pole
Part No. 16131



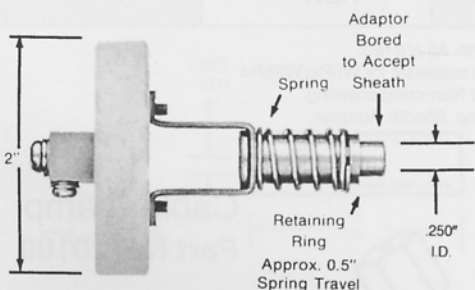
4 Pole
Part No. 16137



6 Pole
Part No. 16132

Style B

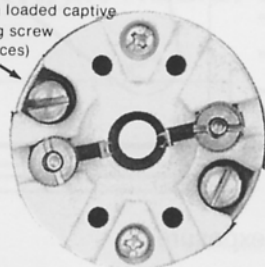
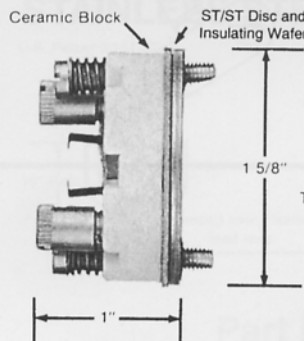
Spring loaded feature added to Style A fixed terminal block. Supplied with two mounting screws. Sheath diameter 0.250". Used with connection heads 47003, 47053, 47052 and 47021.



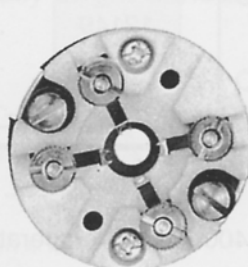
Consists of: Spring, Bracket & Screws
Part No. 24149
(Style A Blocks to be ordered separately)

Style C

Din Type Spring Loaded ceramic block. Approx. 0.375" spring travel. Stainless steel plate drilled to accept 0.250" O.D. Sheath Size. Used with connection heads 47003, 47053, 47052, 47021 and 47056.



2 Pole
Part No. 0052500-2-2



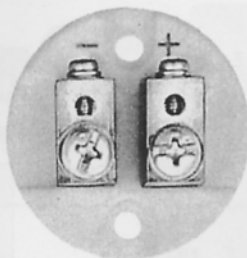
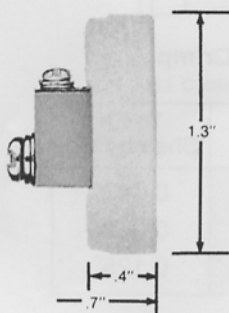
4 Pole
Part No. 0052500-2-4



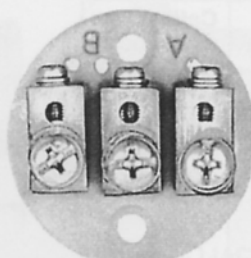
6 Pole
Part No. 0052500-2-6

Style D

Fixed ceramic block with plated brass terminals. Used only with miniature connection heads 31146 and 31147. Not sold separately.



2 Pole For
31147 Head



3 Pole For
31146 Head

CONNECTORS

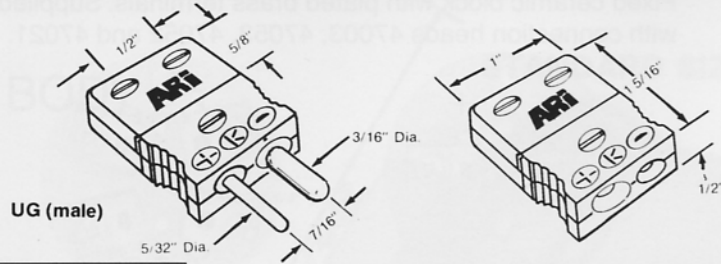
SPECIFY PART NUMBER AND QUANTITY

ARi Type B Two Pin Quick Disconnect Thermocouple Connector System

STANDARD SIZE

Thermocouple Connectors

Supplied in both 400°F and 800°F temperature rating.



400°F TEMPERATURE RATING			
PLUG — MALE		JACK—FEMALE	
Part Number	Calibration Symbol	Body Color	Part Number
13118	E	Violet	14118
13101	J, Y	Black	14101
13100	K	Yellow	14100
13105	R, S	Green	14104
13104	T	Blue	14105
13146	AEX ⁽¹⁾⁽³⁾	Brown	14138
13112	B, AO ⁽²⁾	White	14109
13156	N ⁽³⁾	Orange	14148

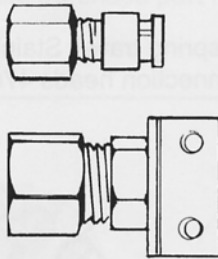
800°F TEMPERATURE RATING		
PLUG — MALE		JACK—FEMALE
Part Number	Calibration Symbol	Part Number
13151	J	14143
13130	K	14144
13152	R, S ⁽²⁾	14145
13153	AEX ⁽¹⁾	14146

Color code — None. All are red.
 (1) Compensating materials for W5Re/W26Re
 (2) Copper/copper Non-compensating
 (3) Use 800°F Temp. Sheath Adaptor

Sheath Adaptors

For 400°F Temp. rating connectors

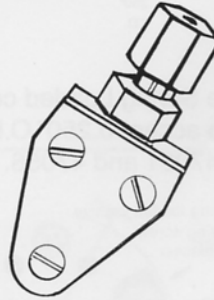
Part Number	Tube or Sheath O.D.
12133	.040"
12104	.062"
12103	.125"
12102	.188"
12101	.250"
12100	.313"



Sheath Adaptors

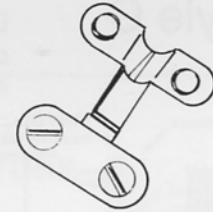
For 800°F Temp. rating connectors

Part Number	Tube or Sheath O.D.
12148	.040"
12141	.062"
12142	.125"
12149	.188"
12150	.250"
12151	.313"



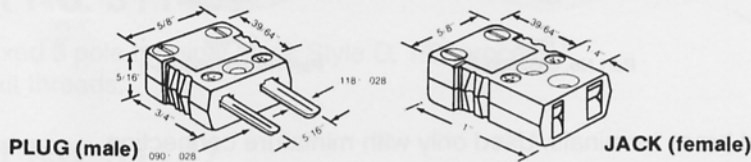
Cable Clamp

Part No. 20109



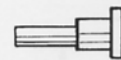
Miniature Blade Type

Thermocouple Connectors 400°F max. temperature exposure.



PLUG (MALE)			PLUG (FEMALE)	
Part Number	Calibration Symbol	Body Color	Part Number	Calibration Symbol
13142	J	Black	14134	J
13143	K	Yellow	14135	K
13144	R, S	Green	14136	R, S
13147	T	Blue	14139	T
13145	Copper/ Copper	White	14137	Copper/ copper

Optional Crimp-on Sheath Adaptors for Mini Plugs



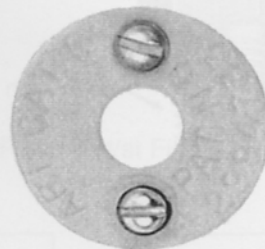
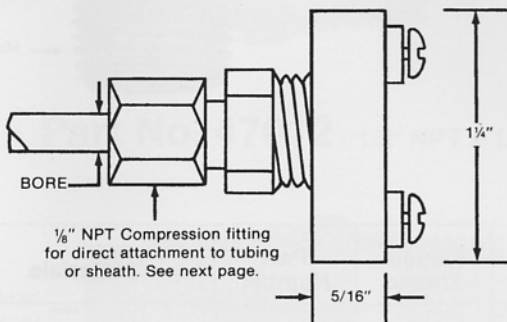
Crimp

Part Number	To Fit Sheath O.D.
12136	0.040"
12137	0.062"
12139	0.125"

SPECIFY PART NUMBER AND QUANTITY

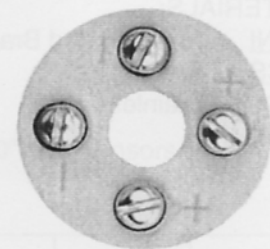
ARi Type F High Temp (1000°F) ARi Patent 2,994,733

Wire to Wire Connector. Ceramic block with captive screw terminals, nickel plated brass.



2 Pole

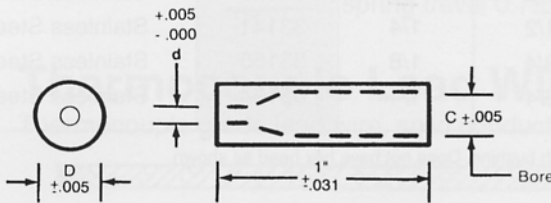
Part No. 0016100-1



4 Pole

Part No. 0016107-1

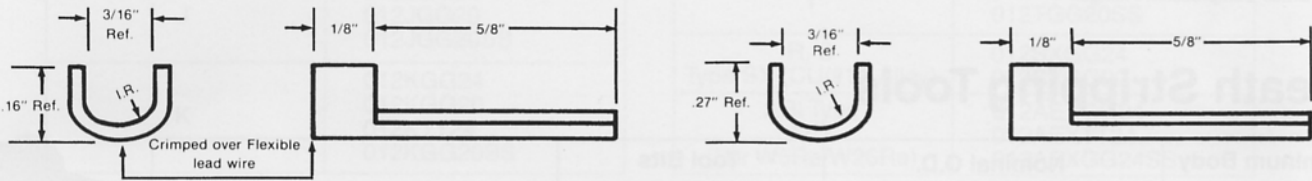
STAINLESS STEEL POTTING SHELLS



Part Number	Shell O.D. (D)	Sheath Clearance Hole (d)	Bore (C)
10106	.250"	.025"	.209"
10107	.250"	.040"	.209"
10108	.250"	.062"	.209"
10109	.250"	.125"	.209"
10110	.250"	.188"	.194"
10111	.313"	.250"	.256"

STAINLESS STEEL STRAIN RELIEFS (fully bright annealed)

U.S. Patent 3,144,507



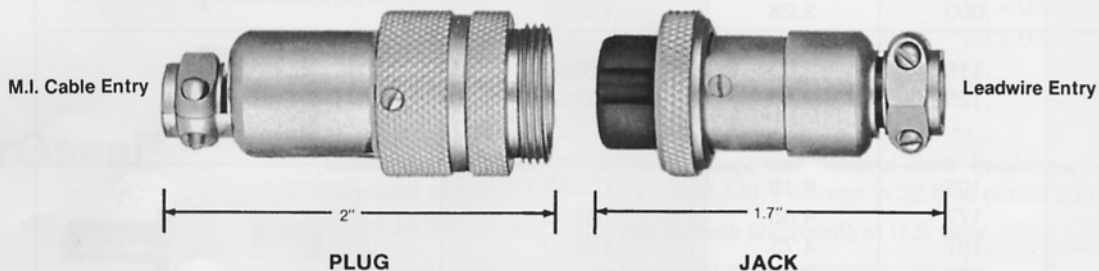
Part No. 490571

Part No. 490960

1/8" wide tang welded or brazed to sheath

ARi Patent 3,144,507

ARi Type A RTD 4 Pin Keyed Connector



Part No. 19289

Part No. 19290

(Sold as a set. Not sold separately.)

Compression Fittings

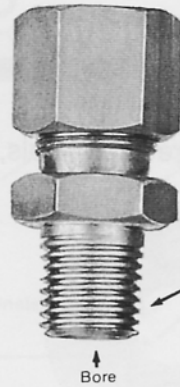
Specify Part Number and Quantity

MATERIALS:

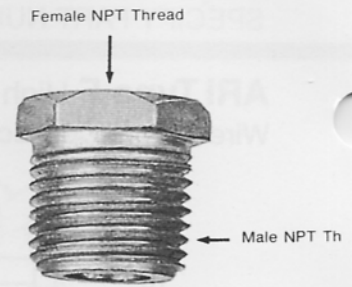
APNI = Nickel Plated Brass

CS = Steel

SS = Stainless Steel



Reducing Bushings



Bore in Inches	Thread (NPT)	Part Number	*Teflon Ferrules Part Number
.062	1/8	PTM-B2SS	
.125	1/8	PTM-D2APNI	47016
.125	1/8	PTM-D2SS	
.188	1/8	PTM-E2APNI	47017
.188	1/8	PTM-E2SS	
.250	1/8	PTM-F2APNI	47018
.250	1/8	PTM-F2SS	
.250	1/4	PTM-F4SS	4716
.313	1/4	PTM-G4SS	
.375	1/2	PTM-18SS	
.500	1/2	PTM-K8SS	8/16
.625	1/2	PTM-P8CS	
.750	3/4	PTM-Q12CS	16/16
1.0	1	PTM-S16SS	
1.0	1	PTM-S16CS	

Male Thread	Female Thread	Part Number	Materials
1/2	1/8	33128	Nickel Plated Brass
1/2	1/4	33127	Nickel Plated Brass
3/4	1/8	33139	Nickel Plated Brass
3/4	1/2	33157*	Nickel Plated Brass
1/2	1/8	33155	Stainless Steel
1/2	1/4	33141	Stainless Steel
3/4	1/8	33150	Stainless Steel
3/4	1/4	33154	Stainless Steel

*Flush bushing. Does not have hex head as shown.

*Accessory Single Piece Teflon Ferrules to Fit Nickel Plated Brass Compression Fittings.

Sheath Stripping Tools

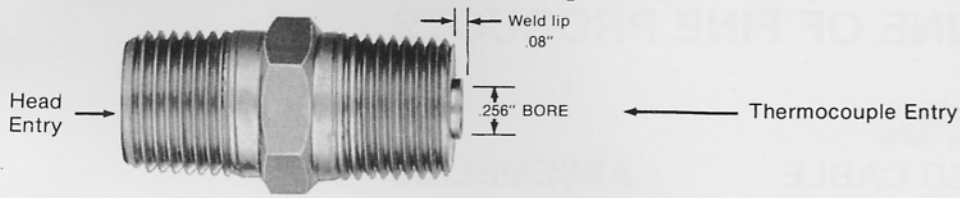
Aluminum Body	Nominal O.D.		Tool Bits	
	Part Number	Inches	mm	Part Number
ST025A	ST032A	.025	0.64	TB125
		.032	0.82	TB125
ST040	ST062	.040	1.00	TB188
		.062	1.57	TB188
		.065	1.65	TB188
		.079	2.00	TB188
		.090	2.28	TB188
ST118	ST125	.118	3.00	TB250
		.125	3.18	TB250
ST125B	—	.125	3.18	TB250
		.177	4.50	TB250
		.187	4.75	TB250
		.236	6.00	TB250
		.250	6.35	TB250



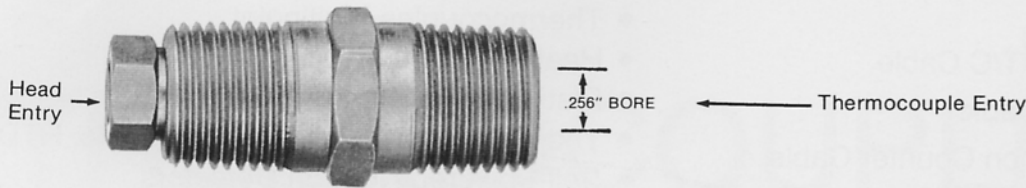
Power Adaptor

*Supplied upon request only.

Special Threaded Adaptors



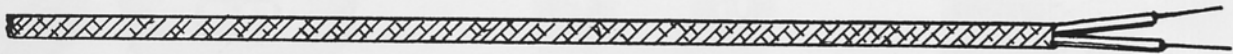
Part No. 47012 1/2" NPT x 1/2" NPT 304 st/st Fitting with weld lip for 0.250" O.D. sensors



Part No. 47013 1/2" NPT x 1/2" NPT 304 st/st Spring Loaded Fitting for 0.250" O.D. sensors spring travel 0.75" min.

Thermocouple Lead Wire

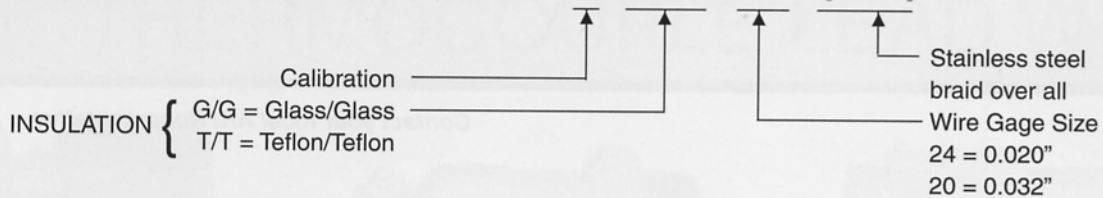
Thermocouple grade lead wire, solid conductors. All meet initial limits of error per ASTM E-230.



Calibration Symbol	Part Number
E	012EGG20
	012EGG20SS
J	012JGG24
	012JGG20
	012JGG20SS
K	012KGG24
	012KGG20
	012KTT24
	012KGG20SS

Calibration Symbol	Part Number
N	012NGG20
	012NTT20
T	012TGG20
	012TGG20SS
R, S Type SX (CU/#11 Alloy)	012SXGG24 012SXGG20
ARi Type AEX (For W5Re/W26Re)	012AEXGG24 012AEXTT24 012AEXGG24SS

Part Number Code 01-2E-G/G-20-(SS)



AerOseal®

Liquid absorption for creating a moisture free "Neutral Zone" in compacted MgO insulated material. U.S. Patent 3,032,444. Package in 32 fluid ounce containers.

PART NUMBER 61226-2—For surface shipments in U.S. only.

61226-3—For Air Freight shipments.

(Special packaging requirements)

ARi INDUSTRIES, INC.

LINE OF FINE PRODUCTS

MINERAL INSULATED CABLE

- Base Metal Thermocouple Cable
- Conductor Cable
- Heater Cable
- Transducer Cable
- High Temperature T/C Cable
- Hazardous Area Cable
- Ion Chamber/Fission Counter Cable

ASSEMBLIES

- Thermocouples-Base Metal
- Thermocouples-Noble Metal
- Thermocouples-Refractory Metal
- Thermocouples-Pad Type
- Thermocouples-Multipoint
- Heaters-Miniature, flexible
- Platinum Resistance Thermometers
- Thermowell Systems, Thermocouple, RTD
- Self-Powered Neutron Detectors

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