

# Rugged Transition Joint Probe with Stainless Steel Pot Seal & PFA Insulated Lead

Starts at  
**£18.75**

Spring Strain Relief prevents "pinching" of the wire.

Available as  
**SUPER OMEGA CLAD™ XL**  
THERMOCOUPLE WIRE  
MAXIMUM PERFORMANCE SHEATHING  
ELIMINATES HIGH TEMPERATURE DRIFT  
See Pages A-11 to A-14

MEETS OR EXCEEDS  
SPECIAL LIMITS OF ERROR (SLE)  
AND EN 60584-2:  
Tolerance Class 1

Entire Assembly Rated to 260°C (500°F)

Comes standard with stripped leads.

Dimensions: mm

25 32 300

- ✓ 310 SS, 316 SS, 321 SS, 304SS Inconel® or Super OMEGA CLAD™ XL Sheath
- ✓ Diameters from 1.5 to 6 mm
- ✓ 1 m PFA Coated Stranded Lead Wire: 7/0.32 for 4.5 and 6 mm OD, 7/0.2 for 1.5 and 3 mm OD Probes
- ✓ Calibration Available
- ✓ Probes Individually Pressure and Insulation Tested

**OPTIONS**

**Dual-Element TJ Probes**  
To Order, add suffix "-DUAL" to model number. Add to base probe price plus any options (extra probe length, overbraiding, armoured cable), then multiply this price x 1.75.

Ordering Example: TJ1-CASS-IM60G-300-DUAL,  
£23.50 x 1.75 = £41.15.

For additional PFA lead wire length, add £2.20 per metre over 1 m and change "1" in part number to desired total length in metres.

Ordering Example: TJ3-ICSS-IM60G-300, Type J transition joint probe with 3 m of PFA lead wire, 6 mm OD stainless steel sheath, 300 mm probe length,  
£23.50 + 4.40 = £27.90.

TJ1-CAIN-IM30G-300, £18.75, shown smaller than actual size.

## SUPER OMEGA CLAD™ XL MODELS HIGHLIGHTED!

### To Order (Specify Model Number)

Calibration IEC Code	Sheath† Material	Sheath Dia. mm	Upper Temp Guidelines °C T/C Junction	Model No. *Specify Junction (G)rounded, (E)xposed, or (U)ngrounded. **Probe Length 150 mm, 300 mm, 450 mm in Stock	Price 150 mm & 300 mm		Price Add'l metre Lead Wire	Price Add'l 300 mm MI Cable	
					G*/E*	U*			
<b>K</b> CHROMEGLA™- ALOMEGA™	304SS	1.5	899	TJ1-CASS-IM15(*)-(**)	£18.75	£20.00	£2.20	£1.05	
	304SS	3.0	899	TJ1-CASS-IM30(*)-(**)	18.75	20.00		1.25	
	304SS	4.5	899	TJ1-CASS-IM45(*)-(**)	19.50	20.75		2.10	
	304SS	6.0	899	TJ1-CASS-IM60(*)-(**)	23.50	24.75		3.40	
	INC600	1.5	921	TJ1-CAIN-IM15(*)-(**)	£18.75	£20.00	£2.20	£1.05	
	INC600	3.0	1071	TJ1-CAIN-IM30(*)-(**)	18.75	20.00		2.10	
	INC600	4.5	1149	TJ1-CAIN-IM45(*)-(**)	19.50	20.75		2.90	
	INC600	6.0	1149	TJ1-CAIN-IM60(*)-(**)	23.50	24.75		5.00	
		XL	1.5	1038	TJ1-CAXL-IM15(*)-(**)	£20.75	£22.00	£2.20	£1.15
		XL	3.0	1149	TJ1-CAXL-IM30(*)-(**)	20.75	22.00		2.30
	XL	4.5	1204	TJ1-CAXL-IM45(*)-(**)	21.50	22.75	3.20		
	XL	6.0	1204	TJ1-CAXL-IM60(*)-(**)	25.50	27.00	5.60		
<b>T</b> COPPER- CONSTANTAN	304SS	1.5	441	TJ1-CPSS-IM15(*)-(**)	£18.75	£20.00	£2.20	£1.05	
	304SS	3.0	521	TJ1-CPSS-IM30(*)-(**)	18.75	20.00		1.25	
	304SS	4.5	621	TJ1-CPSS-IM45(*)-(**)	19.50	20.75		2.10	
	304SS	6.0	721	TJ1-CPSS-IM60(*)-(**)	23.50	24.75		3.40	
<b>J</b> IRON- CONSTANTAN	304SS	1.5	441	TJ1-ICSS-IM15(*)-(**)	£18.75	£20.00	£2.20	£1.05	
	304SS	3.0	521	TJ1-ICSS-IM30(*)-(**)	18.75	20.00		1.25	
	304SS	4.5	621	TJ1-ICSS-IM45(*)-(**)	19.50	20.75		2.10	
	304SS	6.0	721	TJ1-ICSS-IM60(*)-(**)	23.50	24.75		3.40	
<b>N</b> OMEGA-P™-N™	XL	1.5	1038	TJ1-NNXL-IM15(*)-(**)	£20.75	£22.00	£2.20	1.15	
	XL	3.0	1149	TJ1-NNXL-IM30(*)-(**)	20.75	22.00		2.30	
	XL	4.5	1204	TJ1-NNXL-IM45(*)-(**)	21.50	22.75		3.20	
	XL	6.0	1204	TJ1-NNXL-IM60(*)-(**)	25.50	27.00		5.60	

† To order with alternative stainless steel sheaths change SS in part number to "310SS", "316SS" or "321SS".

Note: Other lengths are available, consult Sales Department. \*Specify junction type: E (Exposed), G (Grounded) or U (Insulated).

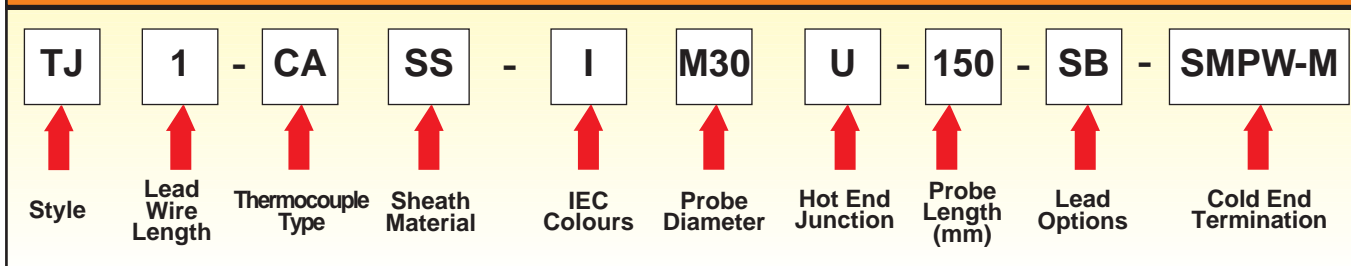
Ordering Example: TJ1-CA310SS-IM30U-300, heavy-duty transition joint probe, Type K (CHROMEGLA™-ALOMEGA™), 310 SS sheath, 3 mm OD, insulated junction, 300 mm length, £20.00.

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# Rugged Transition Joint Probe


## Part Number Builder

### Rugged Transition Joint Model Numbers



Ordering Example: TJ1-CASS-IM30U-150-SB-SMPW-M, £25.50.

### Style



**TJ** = OMEGA's rugged transition joint style probe. The transition joint is 42 mm long and has a diameter of 6.4 mm for 1.5 mm and 3.0 mm, and a 9.5 mm diameter for 4.5 mm and 6 mm probes.

**TJC** = Compact version of our rugged transition joint style probe. The transition joint is 30 mm long and has an outside diameter of 4.5 mm.

### Colour Code


**I** for IEC Colours  
**K T J N**

Blank for ANSI Colours  
**K T J N**

### Dual Elements


To order, add suffix **"-DUAL"** to model number and multiply configured probe price by 1.75.

Example: TJ1-CAIN-IM30G-300-DUAL, £18.75 x 1.75 = £32.81.

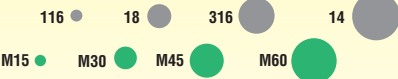


### Lead Wire Length

Imperial dimensions are given in inches (in). Metric dimensions are given in metres (m).



### Probe Diameter



Imperial	Metric
116 = 0.062"	M15 = 1.5 mm
18 = 0.125"	M30 = 3.0 mm
316 = 0.188"	M45 = 4.5 mm
14 = 0.250"	M60 = 6.0 mm

### Lead Options

**SB** = Stainless steel overbraid. Add £2 to price of probe. For each additional metre of wire add £4.90. See page A-17.

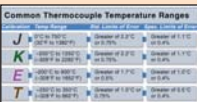
**BX** = Stainless steel armour cable. Add £3.35 to price of probe. For each additional metre of wire add £4.90. See page A-18.

**CC** = Fibreglass insulated lead wire 480°C. Add £6.70 to probe price. See page A-20.

**CC-XSIB** = Silica ceramic insulated lead wire with Inconel® overbraid 815°C. Add £11.50 to probe price. See page A-19.

**CC-XSBX** = Silica ceramic insulated lead wire with stainless steel armour cable (815°C). Add £11.50 to probe price. For each additional metre of wire add £8.

### Calibration



**CA** = Type K, CHROMEGLA™/ALOMEGA™


**IC** = Type J, Iron/Constantan


**CP** = Type T, Copper/Constantan


**CX** = Type E, CHROMEGLA™/Constantan

**NN** = Type N, OMEGA-P™/OMEGA-N™

### Hot End Junction

**Exposed**  

**E** = Exposed – bare conductors are exposed

**Grounded**  

**G** = Grounded – Conductors are in contact with sheath

**Ungrounded**  

**U** = Ungrounded – conductors are insulated from sheath

### Sheath Material

**SS** = 304 SS


**IN** = Inconel® 600

**310SS** = 310 SS\*

**316SS** = 316 SS\*

**321SS** = 321 SS\*


**XL** = Super OMEGA CLAD™ XL (add £2)



For high-temperature applications where low-drift measurements over an extended time period are critical, specify Super OMEGA CLAD™ XL sheaths. For more information, see pages A-11 to A-14.


\*No additional charge.


### Probe Length





Imperial dimensions are given in inches (in). Metric dimensions are given in millimetres (mm).


### Cold End Termination

**OSTW-M** = Standard plug, add £3.40 (shown with clamp) 

**SMPW-M** = Mini plug, add £3.40 

**LUG** = Spade lugs, add £2 

**NHXX-M** = Ceramic std. plug, add £5 

**SHX-M** = Ceramic mini plug, add £5 

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