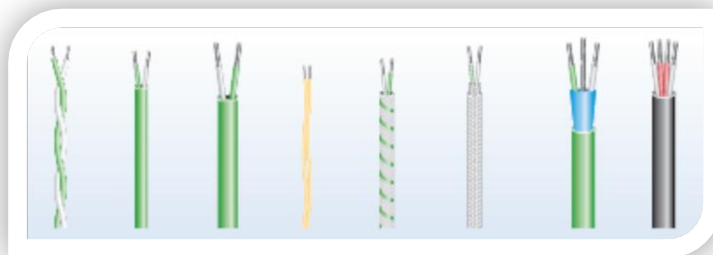




LABFACILITY

TEMPERATURE & PROCESS TECHNOLOGY

THERMOCOUPLE AND RESISTANCE THERMOMETER CABLES





LABFACILITY

TEMPERATURE & PROCESS TECHNOLOGY

ABOUT LABFACILITY

Formed in 1971, Labfacility specialises in the field of Temperature and Process Measurement.

We are the largest UK manufacturer of both temperature sensors and thermocouple connectors, and currently employ 70 staff.

Our products are featured in the worldwide catalogues of Farnell and RS Components, and exported to in excess of 85 countries.

Quality and Service are key elements in the continued growth of Labfacility; technical support is always freely available from our experienced technical sales teams and the company has ISO9001 accreditation.

Labfacility specialises in the manufacture of Temperature Sensors, Thermocouple Connectors and Precision Electronic Thermometers (Tempmaster PRO & Labcal PRO), and also stocks a vast range of Thermocouple Wire and Cable.



Celebrating 41 years in
Temperature Measurement
1971 - 2012



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Thermocouple Extension & Compensating Cable

PVC Insulated Flat Pair (to IEC-584)











- PVC insulated flat pair construction
- Conductors laid flat PVC insulated with overall PVC sheath
- All round general purpose cable, both waterproof and very flexible
- Thermocouple extension types for K, J, T & N
- Compensating types VX (KCB) & U (RCA) for types K & R/S Thermocouples respectively
- Stranded conductors available, either 7/0.2mm or 13/0.2mm
- Available in 10, 25, 50 & 100 metre lengths
- Tolerance Class 2
- Insulation rating -10°C to 105°C
- Colour code (cores & jacket) to IEC-584-3

<u>Calibration Type</u>	<u>No. of Strands</u>	<u>Colour</u>	<u>Product Code</u>	<u>Part Number</u>
K	7/0.2 mm	Type K 	10M - K 7/0.2 PVC F/P IEC	XE-2100-010
K	7/0.2 mm	Type K 	25M - K 7/0.2 PVC F/P IEC	XE-2100-025
K	7/0.2 mm	Type K 	50M - K 7/0.2 PVC F/P IEC	XE-2100-050
K	7/0.2 mm	Type K 	100M - K 7/0.2 PVC F/P IEC	XE-2100-100
J	7/0.2 mm	Type J 	10M - J 7/0.2 PVC F/P IEC	XE-2200-010
J	7/0.2 mm	Type J 	50M - J 7/0.2 PVC F/P IEC	XE-2200-050
J	7/0.2 mm	Type J 	100M - J 7/0.2 PVC F/P IEC	XE-2200-100
T	7/0.2 mm	Type T 	10M - T 7/0.2 PVC F/P IEC	XE-2300-010
T	7/0.2 mm	Type T 	25M - T 7/0.2 PVC F/P IEC	XE-2300-025
T	7/0.2 mm	Type T 	50M - T 7/0.2 PVC F/P IEC	XE-2300-050
T	13/0.2 mm	Type T 	10M - T 13/0.2 PVC F/P IEC	XE-2303-010
T	13/0.2 mm	Type T 	50M - T 13/0.2 PVC F/P IEC	XE-2303-050
N	7/0.2 mm	Type N 	10M - N 7/0.2 PVC F/P IEC	XE-2400-010
N	7/0.2 mm	Type N 	100M - N 7/0.2 PVC F/P IEC	XE-2400-100

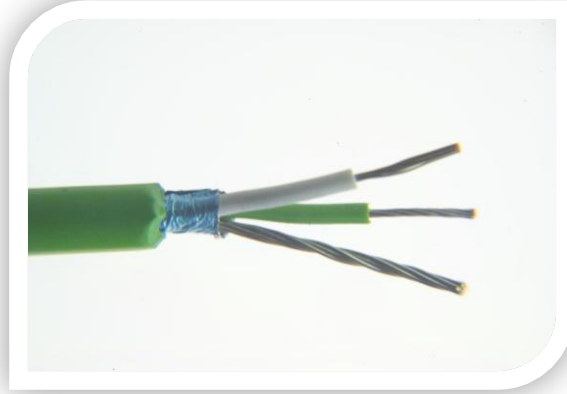
Thermocouple Extension & Compensating Cable

PVC Insulated Flat Pair (to IEC-584)

U (RCA)	7/0.2 mm		25M - U 7/0.2 PVC F/P IEC	XE-2500-025
U (RCA)	13/0.2 mm		10M - U 13/0.2 PVC F/P IEC	XE-2503-010
U (RCA)	13/0.2 mm		25M - U 13/0.2 PVC F/P IEC	XE-2503-025
U (RCA)	13/0.2 mm		100M - U 13/0.2 PVC F/P IEC	XE-2503-100
VX (KCB)	7/0.2 mm		25M - VX 7/0.2 PVC F/P IEC	XE-2550-025
VX (KCB)	7/0.2 mm		100M - VX 7/0.2 PVC F/P IEC	XE-2550-100
VX (KCB)	13/0.2 mm		25M - VX 13/0.2 PVC F/P IEC	XE-2553-025
VX (KCB)	13/0.2 mm		100M - VX 13/0.2 PVC F/P IEC	XE-2553-100

Thermocouple Extension & Compensating Cable

PVC Insulated & Screened (to IEC-584)



- PVC insulated & screened
- Twisted cores & screened construction for reduced electrical noise
- Conductors PVC insulated and twisted together, aluminium Mylar® tape screen & drain wire, overall PVC sheath
- General purpose cable both waterproof and flexible
- Thermocouple extension types for K, J, & compensating type VX (KCB) for type K thermocouple
- Stranded 7/0.2mm conductors
- Available in 10, 25, 50 & 100 metre lengths
- Tolerance Class 2
- Insulation rating -10°C to 105°C
- Colour code (cores & jacket) to IEC-584-3


<u>Calibration Type</u>	<u>No. of Strands</u>	<u>Colour</u>	<u>Product Code</u>	<u>Part Number</u>
K	7/0.2 mm	Type K	10M - K 7/0.2 PVC MYLAR IEC	XE-2112-010
K	7/0.2 mm	Type K	25M - K 7/0.2 PVC MYLAR IEC	XE-2112-025
K	7/0.2 mm	Type K	50M - K 7/0.2 PVC MYLAR IEC	XE-2112-050
K	7/0.2 mm	Type K	100M - K 7/0.2 PVC MYLAR IEC	XE-2112-100
J	7/0.2 mm	Type J	10M J 7/0.2 PVC MYLAR IEC	XE-2212-010
J	7/0.2 mm	Type J	25M J 7/0.2 PVC MYLAR IEC	XE-2212-025
J	7/0.2 mm	Type J	50M J 7/0.2 PVC MYLAR IEC	XE-2212-050
J	7/0.2 mm	Type J	100M J 7/0.2 PVC MYLAR IEC	XE-2212-100
VX (KCB)	7/0.2 mm	Vx KCB	25M - VX 7/0.2 PVC MYLAR IEC	XE-2562-025
VX (KCB)	7/0.2 mm	Vx KCB	100M VX 7/0.2 PVC MYLAR IEC	XE-2562-100

Thermocouple Extension Cable – Type ‘T’ Duplex

Type ‘T’ Cu/Con Duplex (4 core), Silicone Rubber Insulated (25 metre reel)



- Type ‘T’ Duplex for extending up to 2 x type ‘T’ thermocouples
- 4 core (2 pairs) silicone rubber insulated 7/0.2mm conductors, twisted together with silicone rubber outer jacket
- Good electrical and mechanical properties, highly flexible, resistant to oils, acids and other adverse fluids
- Good heat resistance to 200°C although not suitable for direct use in high pressure steam applications
- Supplied in 25 metre reel lengths
- Tolerance Class 2 to IEC-584
- Insulation rating -40°C to 200°C
- Colour code (cores & jacket) to IEC-584-3

<u>Calibration Type</u>	<u>Colour Code</u>	<u>Product Code</u>	<u>Part Number</u>
T		25M - 4 CORE T 7/0.2 SIL/RUB IEC	XE-2399-025

Overall sheath Dimension (approx.)

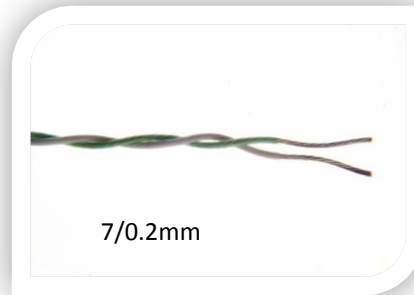
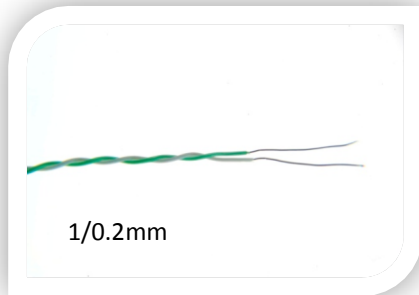
4.4mmØ

Loop resistance (ohms per combined metre)

Type T @ 2.3 Ohms/mtr







Thermocouple Cable – PFA Insulated Twin Twisted Pair

Available in Thermocouple types K, T & N



(Type 'K' shown – see below for other thermocouple types and corresponding colour codes)

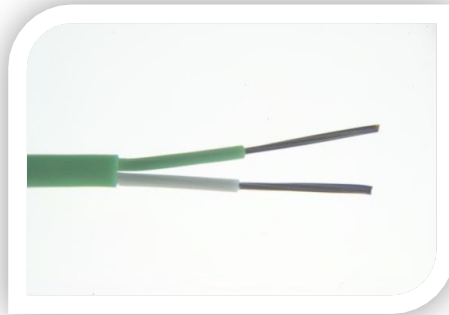
- PFA Teflon® twin twisted pair for extending or making simple thermocouples
- Single pair of PFA insulated conductors twisted together
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids, gasses, steam & pressure etc.
- Thermocouple types K, T & N with 1/0.2mm conductors
- 7/0.2mm stranded option available for type K
- 25, 50 & 100 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour coded to IEC-584-3

<u>Calibration Type</u>	<u>No. of Strands</u>	<u>Colour</u>	<u>Product Code</u>	<u>Part Number</u>
K	1/0.2 mm	 Type K	50M - K 1/0.2 PFA TTP IEC	XE-2122-050
K	1/0.2 mm	 Type K	100M - K 1/0.2 PFA TTP IEC	XE-2122-100
K	7/0.2 mm	 Type K	50M - K 7/0.2 PFA TTP IEC	XE-2125-050
T	1/0.2 mm	 Type T	50M - T 1/0.2 PFA TTP IEC	XE-2322-050
T	1/0.2 mm	 Type T	100M - T 1/0.2 PFA TTP IEC	XE-2322-100
N	1/0.2 mm	 Type N	25M - N 1/0.2 PFA TTP IEC	XE-2422-025









Overall diameter (approx.)	Loop resistance (ohms per combined metre)
1/0.2mm	Type K @ 31.8 Ohms/mtr Type T @ 16.2 Ohms/mtr Type N @ 44.2 Ohms/mtr
7/0.2mm	Type K @ 4.5 Ohms/mtr

Thermocouple Extension Cable – PFA Insulated Flat Pair

Available in Thermocouple types K, J, T & N



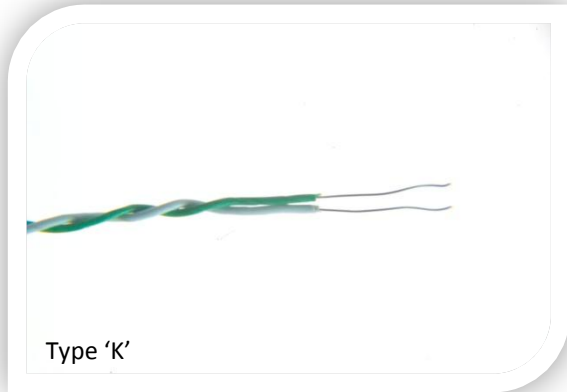
- PFA Teflon® insulated flat pair
- Single pair of PFA insulated conductors, laid flat with PFA jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Thermocouple types K, J, T & N with 7/0.2mm stranded conductors
- 1/0.3mm solid conductor option available for type K
- 25 & 50 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour code (cores & jacket) to IEC-584-3

<u>Calibration Type</u>	<u>No. of Strands</u>	<u>Colour</u>	<u>Product Code</u>	<u>Part Number</u>
K	1/0.315 mm		25M - K 1/0.315 PFA F/P IEC	XE-2133-025
K	7/0.2 mm		25M - K 7/0.2 PFA F/P IEC	XE-2135-025
K	7/0.2 mm		50M - K 7/0.2 PFA F/P IEC	XE-2135-050
J	7/0.2 mm		25M - J 7/0.2 PFA F/P IEC	XE-2235-025
J	7/0.2 mm		50M - J 7/0.2 PFA F/P IEC	XE-2235-050
T	7/0.2 mm		25M - T 7/0.2 PFA F/P IEC	XE-2335-025
T	7/0.2 mm		50M - T 7/0.2 PFA F/P IEC	XE-2335-050
N	7/0.2 mm		25M - N 7/0.2 PFA F/P IEC	XE-2435-025









Overall sheath	Dimensions (approx.)	Loop resistance (ohms per combined metre)
1/0.3mm	1.0mm x 1.6mm	Type K @ 14.1 Ohms/mtr
7/0.2mm	1.5mm x 2.4mm	Type K @ 4.5 Ohms/mtr Type J @ 2.7 Ohms/mtr Type T @ 2.3 Ohms/mtr Type N @ 6.2 Ohms/mtr

Thermocouple Cable – PTFE Insulated Twin Twisted Pair

Available in Thermocouple types K & T, 1/0.2mm

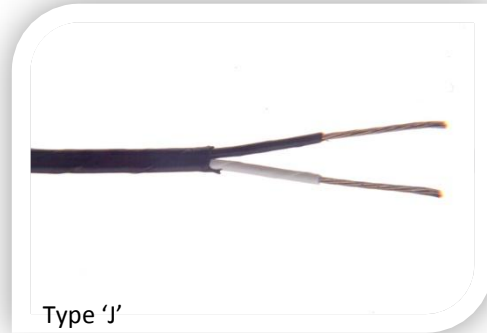
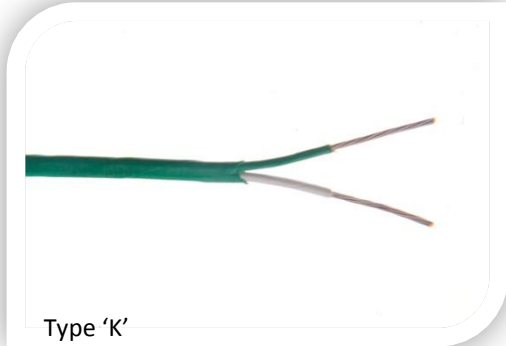


- PTFE twin twisted pair for extending or making simple thermocouples
- Single pair of PTFE insulated conductors twisted together
- Thermocouple types K, J, T & N with 1/0.2mm conductors
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Suitable for steam & pressure applications, autoclaves, sterilizers etc.
- 25, 50 & 100 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour coded to IEC-584-3
- See below for optional Thermocouple Welder

<u>Calibration Type</u>	<u>Colour</u>	<u>No. of Strands</u>	<u>Product Code</u>	<u>Part Number</u>
K		1/0.2	25M - K 1/0.2 PTFE TTP IEC	XE-2142-025
K		1/0.2	50M - K 1/0.2 PTFE TTP IEC	XE-2142-050
K		1/0.2	100M - K 1/0.2 PTFE TTP IEC	XE-2142-100
J		1/0.2	25M - J 1/0.2 PTFE TTP IEC	XE-2242-025
T		1/0.2	25M - T 1/0.2 PTFE TTP IEC	XE-2342-025
T		1/0.2	50M - T 1/0.2 PTFE TTP IEC	XE-2342-050
T		1/0.2	100M - T 1/0.2 PTFE TTP IEC	XE-2342-100
N		1/0.2	25M - N 1/0.2 PTFE TTP IEC	XE-2442-025





Thermocouple Extension Cable – PTFE Insulated Flat Pair

Available in Thermocouple types K, J & T



(Type 'K' & 'J' shown – see below for other thermocouple types and corresponding colour codes)

- PTFE insulated flat pair cable
- Single pair of PTFE insulated conductors, laid flat with PTFE jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Suitable for steam & pressure applications, autoclaves, sterilisers etc.
- Thermocouple types K, J, & T with 7/0.2mm stranded conductors
- 1/0.3mm solid conductor option available for type T
- 25 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour code (cores & jacket) to IEC-584-3

<u>Calibration Type</u>	<u>No. of Strands</u>	<u>Colour</u>	<u>Product Code</u>	<u>Part Number</u>
K	7/0.2 mm		25M - K 7/0.2 PTFE F/P IEC	XE-2155-025
J	7/0.2 mm		25M - J 7/0.2 PTFE F/P IEC	XE-2255-025
T	1/0.315 mm		25M - T 1/0.315 PTFE F/P IEC	XE-2353-025
T	7/0.2 mm		25M - T 7/0.2 PTFE F/P IEC	XE-2355-025

Overall sheath **Dimensions** (approx.)

1/0.3mm 1.0mm x 1.6mm
7/0.2mm 1.2mm x 2.2mm

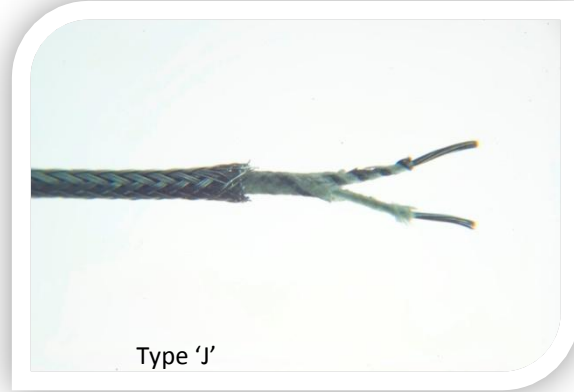
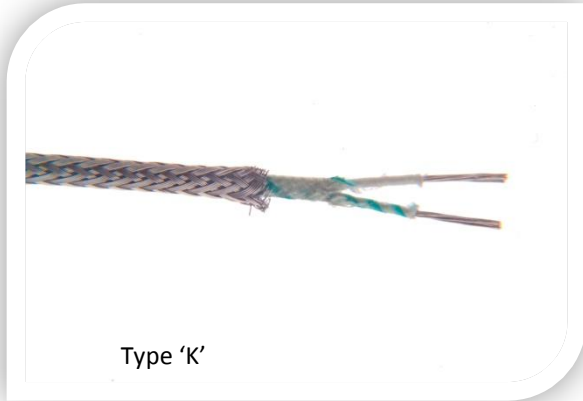
Loop resistance (ohms per combined metre)

Type T @ 7.2 Ohms/mtr
Type K @ 4.5 Ohms/mtr
Type J @ 2.7 Ohms/mtr
Type T @ 2.3 Ohms/mtr




Thermocouple Extension Cable

Glassfibre Flat Pair with Stainless Steel Overbraid

Type 'K' or 'J', 7/0.2mm in 10 & 25 metre reels – conforms to IEC584



- Glassfibre insulated extension cable with stainless steel overbraiding
- Thermocouple types; K or J
- 7/0.2mm stranded conductors
- Glassfibre insulated flat pair construction, conductors laid flat, Glassfibre insulated with Glassfibre jacket, silicone varnished throughout + stainless steel overbraid for added protection and mechanical strength
- Good temperature resistance but not suitable where fluids are present
- Available in 10 or 25 metre reel lengths
- All types; conductors are made from associated K or J thermocouple alloy type
- Tolerance Class 2 to IEC-584
- Insulation rating -60°C to 350°C (short periods up to 400°C)
- Colour code (cores & jacket) to IEC-584-3

Calibration Type	No. of Strands	Colour	Product Code	Part Number
K	7/0.2 mm		10M - K 7/0.2 F/G+SSOB IEC	XE-2175-010
K	7/0.2 mm		25M - K 7/0.2 F/G+SSOB IEC	XE-2175-025
J	7/0.2 mm		25M - J 7/0.2 FG+SSOB IEC	XE-2275-025

Overall sheath Dimensions (approx.)

7/0.2mm 1.8mm x 2.6mm

Loop resistance (ohms per combined metre)

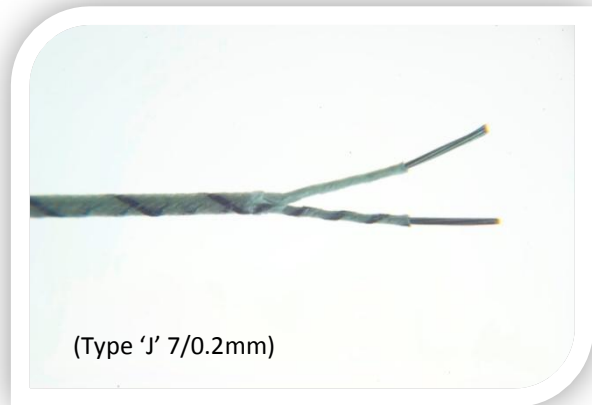
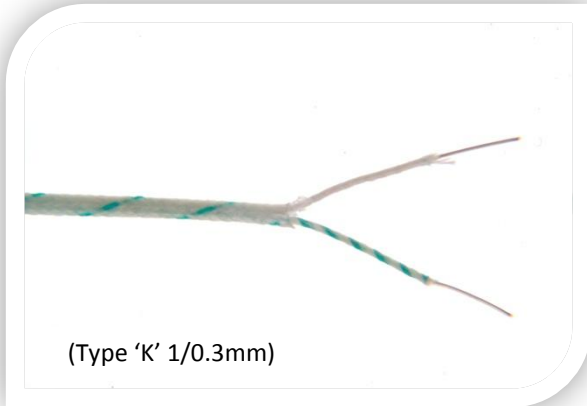
Type K @ 4.5 Ohms/mtr

Type J @ 2.7 Ohms/mtr







Thermocouple Extension Cable

Glassfibre Insulated Flat Pair

Types 'K' & 'T' 1/0.3 solid strand, or Type 'J' 7/0.2mm multi-strand – to IEC584



- Glassfibre insulated extension cable in thermocouple types; K, J or T
- Glassfibre insulated flat pair construction, conductors laid flat, Glassfibre insulated with Glassfibre overall, silicone varnished throughout
- Good temperature resistance but not suitable where fluids are present
- Types K, J & T available in solid 1/0.3mm conductors, J also 7/0.2mm stranded conductors
- Available in 10 or 25 metre reel lengths
- All types; conductors are made from associated K, J or T thermocouple alloy type
- Tolerance Class 2 to IEC-584
- Insulation rating -60°C to 350°C (short periods up to 400°C)
- Colour code (cores & jacket) to IEC-584-3

Calibration Type	No. of Strands	Colour	Product Code	Part Number
K	1/0.315 mm		10M - K 1/0.315 F/G F/P IEC	XE-2163-010
K	1/0.315 mm		25M - K 1/0.315 F/G F/P IEC	XE-2163-025
K	1/0.315 mm		50M - K 1/0.315 F/G F/P IEC	XE-2163-050
J	1/0.315 mm		10M - J 1/0.315 F/G F/P IEC	XE-2263-010
J	7/0.2 mm		25M - J 7/0.2 F/G F/P IEC	XE-2265-025
T	1/0.315 mm		10M - T 1/0.315 F/G F/P IEC	XE-2363-010

Overall sheath Dimensions (approx.)
1/0.3mm 1.1mm x 1.7mm

7/0.2mm 1.2mm x 1.9mm

Loop resistance (ohms per combined metre)

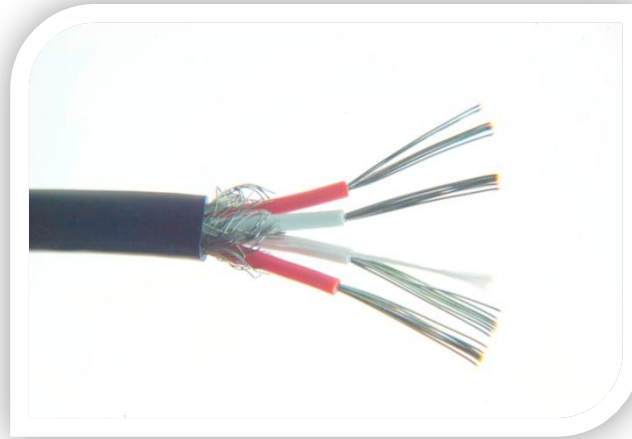
Type K @ 14.1 Ohms/mtr

Type T @ 7.2 Ohms/mtr

Type J @ 2.7 Ohms/mtr

RTD Extension Cable – 4 core PVC (10, 25 & 50 reel lengths)

Platinum Resistance Thermometer Extension Cable, PVC insulated & screened



- PVC insulated cable for extending Platinum Resistance Thermometers
- Can be used to extend 2, 3 or 4 wire RTD configurations
- Commonly use for Pt100Ω thermometers but also suitable with other types such as Pt130, Pt500 & Pt1000Ω
- 4 core PVC insulated 7/0.2mm tin plated copper conductors, twisted cores, polyester tape & nylon cord, tin plated copper braided screen with PVC insulated outer jacket
- Cores colour coded 2 x Red / 2 x White to IEC-751 with black outer jacket
- Heat resistant PVC to 105°C
- Good for general purpose cable, highly flexible & waterproof
- Insulation rating -10°C to 105°C
- Supplied in 10, 25 & 50 metre reel lengths

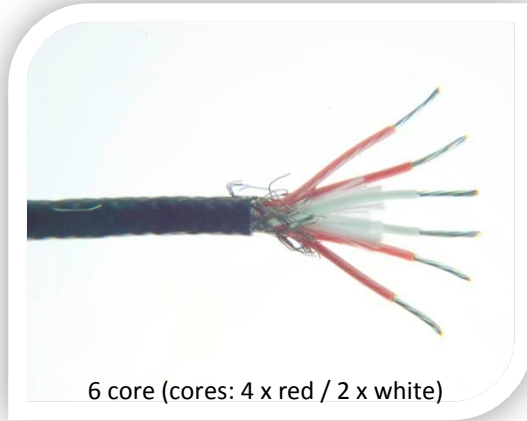
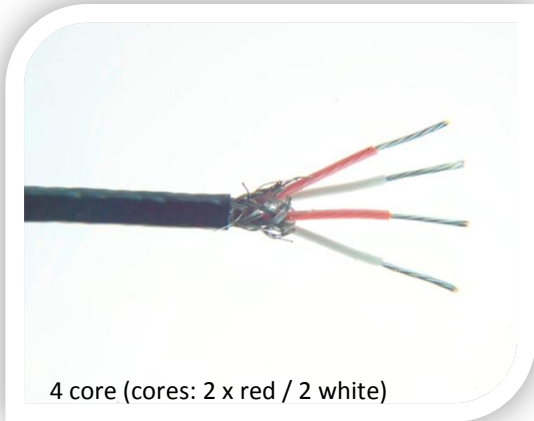
<u>No. of Strands</u>	<u>Product Code</u>	<u>Part Number</u>
7/0.2 mm	10M - 4 CORE CU 7/0.2 SCR PVC	XE-2714-010
7/0.2 mm	25M - 4 CORE CU 7/0.2 SCR PVC	XE-2714-025
7/0.2 mm	50M - 4 CORE CU 7/0.2 SCR PVC	XE-2714-050

Overall sheath Dimension (approx.)

4.4mmØ

RTD Extension Cable – 4 & 6 core PFA (10 & 25 reel lengths)

Platinum Resistance Thermometer Extension Cable, PFA insulated & screened



- PFA insulated cable for extending Platinum Resistance Thermometers
- High temperature to 260°C, extruded PFA teflon® construction
- Commonly used for Pt100Ω thermometers, also suitable with other types such as Pt130, Pt500 & Pt1000Ω
- 4 & 6 core available – to extend 2, 3 or 4 wire RTD configurations, the 6 core can be used to extend 2 x 3 wire duplex (dual element) configurations
- Construction – PFA insulated 7/0.2mm tin plated copper conductors, twisted cores with nylon cord, tin plated copper braided screen with PFA insulated outer jacket
- Cores colour coded Red & White in accordance with IEC-751, black outer jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Insulation rating -75°C to 260°C
- Supplied in 10, & 25 metre reel lengths

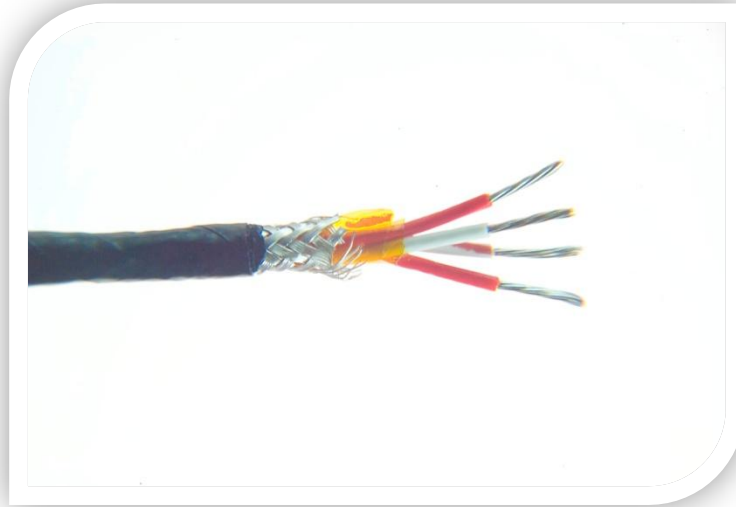
<u>No. of Strands</u>	<u>Product Code</u>	<u>Part Number</u>
7/0.2 mm	10M - 4 CORE CU 7/0.2 SCR PFA	XE-2734-010
7/0.2 mm	10M - 6 CORE CU 7/0.2 SCR PFA	XE-2736-010
7/0.2 mm	25M - 4 CORE CU 7/0.2 SCR PFA	XE-2734-025
7/0.2 mm	25M - 6 CORE CU 7/0.2 SCR PFA	XE-2736-025

Overall sheath Dimension (approx.)

4 core: 3.2mmØ
6 core: 3.8mmØ

RTD Extension Cable – 4 core PTFE (10 & 25 reel lengths)

Platinum Resistance Thermometer Extension Cable, PTFE insulated & screened



- PTFE insulated cable for extending Platinum Resistance Thermometers
- High temperature to 260°C, PTFE wrapped tape construction
- Can be used to extend 2, 3 or 4 wire RTD configurations
- Commonly use for Pt100Ω thermometers, also suitable with other types such as Pt130, Pt500 & Pt1000Ω
- 4 core PTFE insulated 7/0.2mm silver plated copper conductors, twisted cores, mylar tape, silver plated copper braided screen with PTFE insulated outer jacket
- Cores colour coded 2 x Red / 2 x White to IEC-751 with black outer jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids, steam, gasses etc.
- Insulation rating -75°C to 260°C
- Supplied in 10 & 25 metre reel lengths

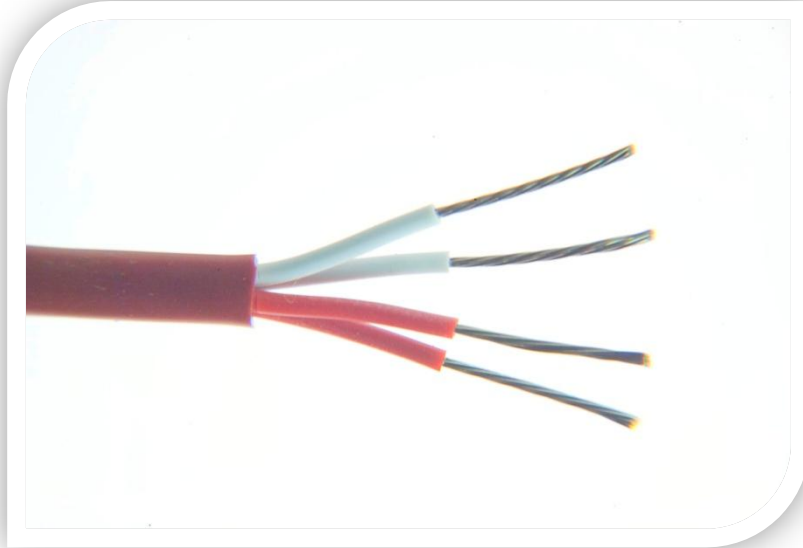
<u>No. of Strands</u>	<u>Product Code</u>	<u>Part Number</u>
7/0.2 mm	10M - 4 CORE CU 7/0.2 SCR PTFE	XE-2757-010
7/0.2 mm	25M - 4 CORE CU 7/0.2 SCR PTFE	XE-2757-025

Overall sheath Dimension (approx.)

3.5mmØ

RTD Extension Cable – 4 core (25 metre reel)

Platinum Resistance Thermometer Extension Cable – Silicone Rubber Insulated



- Silicone rubber insulated cable for extending Platinum Resistance Thermometers
- Can be used to extend up to 4 wire RTD configurations
- Commonly used with Pt100Ω thermometers but suitable with other types Pt130/500/1000Ω etc.
- 4 core silicone rubber insulated 7/0.2mm tin plated copper conductors, twisted together with silicone rubber outer jacket
- Cores colour coded 2 x Red / 2 x White to IEC-751
- Good electrical and mechanical properties, highly flexible, resistant to oils, acids and other adverse fluids
- Good heat resistance up to 200°C
- Insulation rating -40°C to 200°C
- Supplied in 25 metre reel lengths

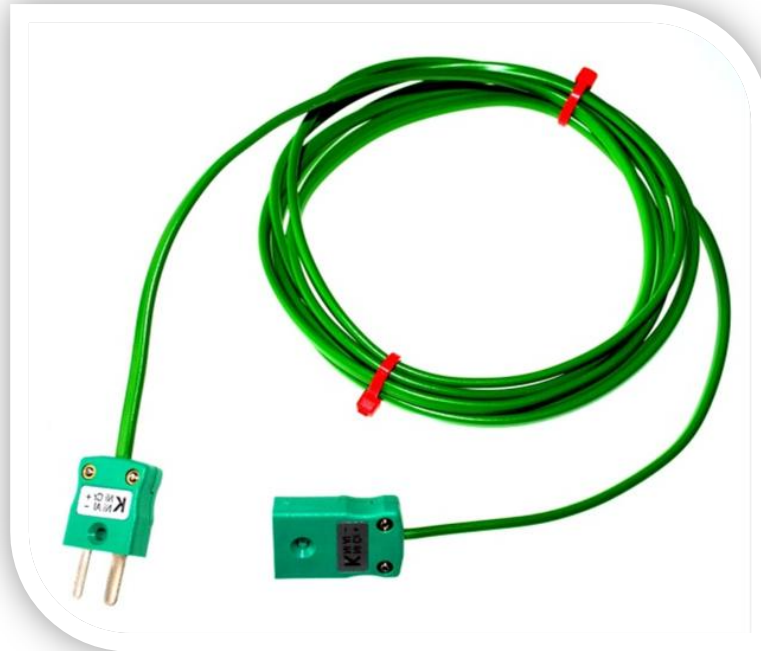
<u>Product Code</u>	<u>Part Number</u>
25M - 4 CORE CU 7/0.2 SIL/RUB	XE-2798-025

Overall sheath Dimension (approx.)

4.0mmØ

Thermocouple Extension Leads with Miniature Connectors

Available in types K, J, T & N



(Note: Illustration shows Type 'K' with miniature connectors – for indication only)

Labfacility are pleased to be able to offer our range of thermocouple extension leads. These can be used to extend the length of your current thermocouple cable, thus saving you having to replace the thermocouples for ones with a longer cable length.

Thermocouple extension leads available with miniature IEC connectors, types K, J, T & N, in 2 metre, 5 metre and 10 metre lengths

Specifications

Cable Construction:

Single pair 7/0.2
PVC insulated cable / wire
Laid flat, side by side & PVC sheathed
Tolerance class 2
Insulation rating -10 to 105°C
IEC colour coded

Miniature Connectors:

Miniature connector with flat plug pins
Miniature socket with thermocouple contacts
Contacts are polarised to prevent incorrect connection
Max temperature 220°C
IEC colour coded

Thermocouple Extension Leads with Miniature Connectors

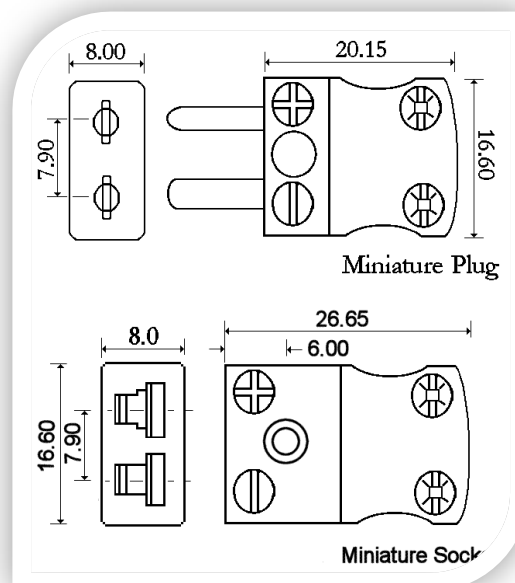
Available in types K, J, T & N

Order codes:

EXTENSION LEADS WITH MINIATURE PLUG & SOCKET CONNECTORS

<u>TYPE</u>	<u>PLUG & SOCKET CONNECTORS</u>	<u>CABLE LENGTH (mtrs)</u>	<u>MAX TEMP.</u>	<u>CODE</u>	<u>IEC COLOUR CODE</u>	<u>LABFACILITY PART NUMBER</u>
K	Miniature	2	105°C	EXT-K-C1-2.0-MP-MS	GREEN	XE-7000-001
K	Miniature	5	105°C	EXT-K-C1-5.0-MP-MS	GREEN	XE-7001-001
K	Miniature	10	105°C	EXT-K-C1-10.0-MP-MS	GREEN	XE-7002-001
J	Miniature	2	105°C	EXT-J-C1-2.0-MP-MS	BLACK	XE-7003-001
J	Miniature	5	105°C	EXT-J-C1-5.0-MP-MS	BLACK	XE-7004-001
J	Miniature	10	105°C	EXT-J-C1-10.0-MP-MS	BLACK	XE-7005-001
T	Miniature	2	105°C	EXT-T-C1-2.0-MP-MS	BROWN	XE-7006-001
T	Miniature	5	105°C	EXT-T-C1-5.0-MP-MS	BROWN	XE-7007-001
T	Miniature	10	105°C	EXT-T-C1-10.0-MP-MS	BROWN	XE-7008-001
N	Miniature	2	105°C	EXT-N-C1-2.0-MP-MS	PINK	XE-7009-001
N	Miniature	5	105°C	EXT-N-C1-5.0-MP-MS	PINK	XE-7010-001
N	Miniature	10	105°C	EXT-N-C1-10.0-MP-MS	PINK	XE-7011-001

MINIATURE CONNECTOR DIMENSIONS



Thermocouple Extension Leads with Standard Connectors

Available in types K, J, T & N



(Note: Illustration shows Type 'K' with standard connectors – for indication only)

Labfacility are pleased to be able to offer our range of thermocouple extension leads. These can be used to extend the length of your current thermocouple cable, thus saving you having to replace the thermocouples for ones with a longer cable length.

Thermocouple extension leads available with standard IEC connectors, types K, J, T & N, in 2 metre, 5 metre and 10 metre lengths

Specifications

Cable Construction:

Single pair 7/0.2
PVC insulated cable / wire
Laid flat, side by side & PVC sheathed
Tolerance class 2
Insulation rating -10 to 105°C
IEC colour coded

Standard Connectors:

Standard connector with solid, round plug pins
Standard socket with thermocouple contacts
Suitable for industrial applications
Contacts are polarised to prevent incorrect connection
Max temperature 220°C
IEC colour coded

Thermocouple Extension Leads with Standard Connectors

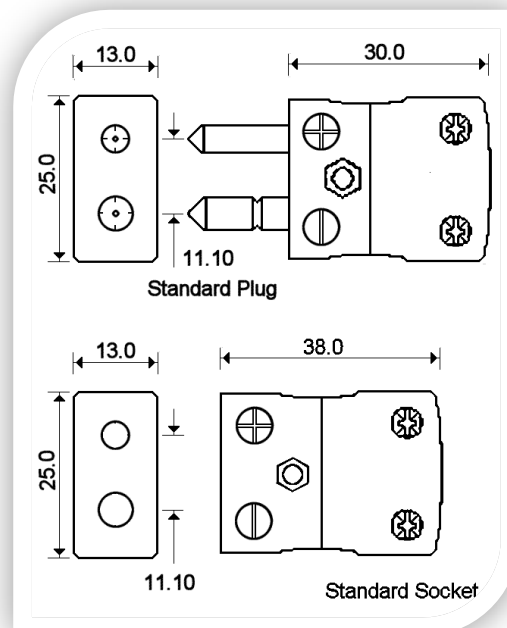
Available in types K, J, T & N

Order codes:

EXTENSION LEADS WITH STANDARD PLUG & SOCKET CONNECTORS

TYPE	PLUG & SOCKET CONNECTORS	CABLE LENGTH (mtrs)	MAX TEMP.	CODE	IEC COLOUR CODE	LABFACILITY PART NUMBER
K	Standard	2	105°C	EXT-K-C1-2.0-SP-SS	GREEN	XE-7012-001
K	Standard	5	105°C	EXT-K-C1-5.0-SP-SS	GREEN	XE-7013-001
K	Standard	10	105°C	EXT-K-C1-10.0-SP-SS	GREEN	XE-7014-001
J	Standard	2	105°C	EXT-J-C1-2.0-SP-SS	BLACK	XE-7015-001
J	Standard	5	105°C	EXT-J-C1-5.0-SP-SS	BLACK	XE-7016-001
J	Standard	10	105°C	EXT-J-C1-10.0-SP-SS	BLACK	XE-7017-001
T	Standard	2	105°C	EXT-T-C1-2.0-SP-SS	BROWN	XE-7018-001
T	Standard	5	105°C	EXT-T-C1-5.0-SP-SS	BROWN	XE-7019-001
T	Standard	10	105°C	EXT-T-C1-10.0-SP-SS	BROWN	XE-7020-001
N	Standard	2	105°C	EXT-N-C1-2.0-SP-SS	PINK	XE-7021-001
N	Standard	5	105°C	EXT-N-C1-5.0-SP-SS	PINK	XE-7022-001
N	Standard	10	105°C	EXT-N-C1-10.0-SP-SS	PINK	XE-7023-001

STANDARD CONNECTOR DIMENSIONS



Thermocouple & fine wire welder

L60+ WELDER



The Thermocouple Welder, manufactured by Labfacility, is a compact, simple-to-use instrument designed for thermocouple and fine wire welding.

It is primarily designed for use by sensor manufacturers to produce commercial grade thermocouple junctions; it is ideal for producing large numbers of exposed junction thermocouples for test and development laboratories. The L60 Thermocouple Welder is ideally suited to transducer and RTD extension lead attachment.

Use of the Thermocouple Welder does not require special skills and most operatives will be capable of producing quality work with little practice. The instrument is supplied with a full range of user accessories including a footswitch.

Suitable for use with wires of up to 1.1mm diameter an argon gas shield facility is included but a satisfactory thermocouple junction is produced without the need for argon. The output energy of the L60 Thermocouple Welder can be varied up to 60 Joules.

- Simple to use Thermocouple Welder
- Designed for the production of commercial grade thermocouple junctions
- Also suitable for other fine wire work
- Front panel or footswitch operation
- Argon gas shield facility

Supplied complete with the following accessories:

- Wire Holding Pliers & Lead
- Safety Glasses
- Magnifying Eyeglass
- Carbon Electrodes
- Spare 2A Fuse
- Argon Hose
- Mains Lead
- Footswitch for greater ease of use

Thermocouple & fine wire welder

L60+ WELDER

SPECIFICATIONS

Energy Output 0-60 Joules
Welding Capacity Wires up to 1.1mm diameter
Duty Cycle Minimum 5-10 welds/min

MECHANICAL

Physical Dimensions 220mm Wide x 120mm High x 250mm Depth
Weight 4kg

ELECTRICAL

Power Supply 110-120 Vac or 220-250 Vac, 50-60Hz
Power Consumption Max 170VA dropping to 20VA during charging

MAINTENANCE

Apart from keeping the electrode in good order, no other maintenance is required

ORDERING INFORMATION

Description	Part Number
L60 Welder	XE-6101-001
Carbon Electrodes (Pack of 5)	XE-6120-001





LABFACILITY

TEMPERATURE & PROCESS TECHNOLOGY

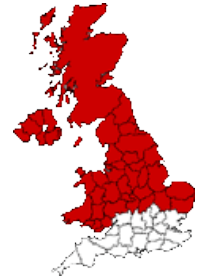
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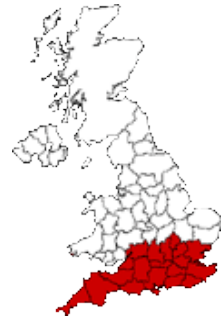
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