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ABFACILITY

FARNELL INONE

Thermocouple Cables - continued

General Data - continued

Thermocouple Extension and Compensation Cable - continued

Single or Multi-Strand?

The choice is mainly determined by the application (e.g. termination considerations and internal diameter of associated sheath). Generally, single-strand wires are used for thermocouple junctions and multi-strand or thicker single-strand for extensions of the thermocouple. The greater the effective conductor diameter, the lower the value of thermocouple loop resistance, an important consideration with long cable runs.

Source: LABFACILITY TEMPERATURE HANDBOOK- Order Code 656-069.

Extension Cable and Compensating Cable, PVC

Types J, K, T, N, R/S and Vx

Colour coded to BS4937 Part 30:1993.

Extension Cable

Mftrs

Extension cable suitable for thermocouples. The cable is 7/0.2 twin flat with PVC covered conductors with an overall sheath of PVC. The cable is ideally suited for extending thermocouples away from the heat source via the connectors listed below.

Compensating Cable (Type K)

The Vx cable is type K compensating at ambient temperatures up to 80°C.

| . List No. | WJ-200/10M (IEC) | = | 708-2289 | WV-100/25M (IEC) | = | 708-2370 |
|------------|------------------|---|----------|-------------------|---|----------|
| . LIOUNO. | WJ-200/50M (IEC) | | 708-2290 | WJ-200/10M (IEC) | | 708-2289 |
| | WK-150/10M (IEC) | | 708-2307 | WT-009/50M (IEC) | | 708-2368 |
| | WK-150/50M (IEC) | = | 708-2319 | WV-009/25M (IEC) | = | 708-2393 |
| | WN-001/10M (IEC) | = | 708-2320 | WV-009/100M (IEC) | = | 708-2400 |
| | WT-200/50M (IEC) | = | 708-2344 | WU-100/100M (IEC) | = | 708-2423 |
| | | | | | | |

| | | Price Each | | | | |
|----------------------------|------------|------------|----------|---|---|--|
| Extension Cable | Order Code | 1+ | 5+ | + | + | |
| Type J ,7/0.2mm 10m | 708-2289 | 578.00 | 524.00 | | | |
| Type J ,7/0.2mm 50m | 708-2290 | 2,865.00 | 2,671.00 | | | |
| Type K , 7/0.2mm 10m | 708-2307 | 1,166.00 | 1,101.00 | | | |
| Type K ,7/0.2mm 50m | 708-2319 | 5,613.00 | 5,344.00 | | | |
| Type N ,7/0.2mm 10m | 708-2320 | 964.00 | 868.00 | | | |
| Type T ,7/0.2mm 50m | 708-2344 | 2,678.00 | 2,410.00 | | | |
| Type T ,13/0.2mm 50m | 708-2368 | 3,213.00 | 2,892.00 | | | |
| Compensating Cable | | | | | | |
| Type Vx (K) ,7/0.2mm 25m | 708-2370 | 1,070.00 | 966.00 | | | |
| Type Vx (K) ,13/0.2mm 25m | 708-2393 | , | , | | | |
| Type Vx (K) ,13/0.2mm 100m | 708-2400 | | | | | |
| Type RC/SC ,13/0.2mm 100m | 708-2423 | 5,248.00 | 4,724.00 | | | |
| | | | | | | |

Screened Extension and Compensating Cable Types K and Vx

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Screened thermocouple cable reducing electromagnetic and electrostatic interference of thermocouple signals. The cable comprises one pair of stranded 7/0.2mm conductors, PVC

insulated and twisted together. The pair are screened with mylar/aluminium tape in contact throughout with a copper drain wire. The cable has an overall round PVC sheath, approximate diameter 5mm.

Maximum temperature 105°C (type K) and 80°C (type Vx).

Mftrs. List No. WK-074/10M (IEC) =708-6131, WK-074/50M (IEC) =708-6143, WV-029/100M (IEC) =708-6155

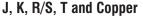
| | | | | 212222 |
|---|----------------------|----------------------|----------------------|--------|
| | Order Code | 1+ | Price Each 10+ | + |
| Extension Cable Type K 10m coil Type K 50m coil | 708-6131 708-6143 | 1,490.00 6,872.00 | 1,316.00 6,062.00 | |
| Compensating Cable Type Vx (K) 100m reel | 708-6155 | 4,986.00 | 4,403.00 | |

Thermocouple Connectors and Accessories

Thermocouple Connectors

- **General Data**
- Designed and manufactured under strict ISO 9000:2000 disciplines Full compliance to CENELEC specifications IEC, ANSI, DIN & JIS colour coding
- Contacts made from thermocouple material
- Calibration types J,K,T,E,R,S,N & Cu(B)
- Terminal cable clamping plates
- Polarised terminals guarantee correct polarity
- Compatibility with other makes of connectors
- High accuracy compensated connections

Connectors - Standard Types





 A range of standard sized connectors with round pins to suit the thermocouple type being used

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- Intended for use in more industrial applications
- All contacts are polarised to ensure correct connection
- Maximum continuous operating temperature 220°C Cable clamps available for securing cable to free plugs and sockets
- Colour coded to BS4937 Part30:1993

| | | | | | | 212475 | |
|-------------|-----------------|------------|--------|--------|--------|--------|--|
| | | Price Each | | | | | |
| Line Plug | Order Code | 1+ | 10+ | 25+ | 100+ | + | |
| Type J | 148-823 | 298.00 | 284.00 | 268.00 | 262.00 | | |
| Туре К | 708-7925 | 298.00 | 284.00 | 268.00 | 252.00 | | |
| Туре Т | 381-0215 | 299.00 | 298.00 | 268.00 | 252.00 | | |
| Type R | 708-7950 | 298.00 | 284.00 | 268.00 | 252.00 | | |
| Line Socket | | | | | | | |
| Type J | 148-824 | 273.00 | 259.00 | 246.00 | 231.00 | | |
| Type K | 708-7937 | 273.00 | 259.00 | 246.00 | 231.00 | | |
| Туре Т | 381-0240 | 273.00 | 259.00 | 246.00 | 231.00 | | |
| Type R | 708-7962 | 273.00 | 259.00 | 246.00 | 246.00 | | |
| Copper | 381-0252 | 273.00 | 259.00 | 246.00 | 231.00 | | |

Connectors, Miniature

Types, J, K, N, T and Copper

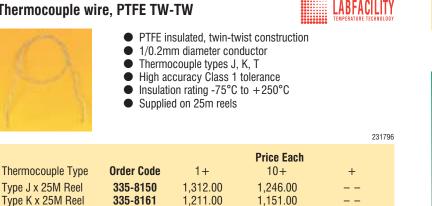


- with flat pins having terminal and contact material to suit the thermocouple type
- Uncompensated copper connectors also available (colour white)
- All contacts are polarised to ensure correct connection
- Connectors will accept thermocouple cable up to 3mm diameter
- Maximum operating temperature 220°C
- Cable clamps available for securing cable to free plugs and sockets



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Thermocouple wire, PTFE TW-TW



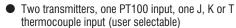


| 8-6398 | 196.00 | 186.00 | 184.00 | 168.00 | |
|--------|--------|--------|--------|--------|--|
| 1-8862 | 196.00 | 186.00 | 184.00 | 168.00 | |

SETATUS

PT100 or Thermocouple to 4-20mA

72



- Both have 4-20mA output
- Din sized for in head installation
- Screw terminals for inputs and outputs
- Corrosion resist plastic case
- 0.2°C accuracy
- Tested to EN55011, IEC 801-2, 3, 4 for EMC compatibilty

H = 23.0, Dia. = 41.8

2 Mounting holes dia. 5.5 @ 33 cntrs. Centre hole (sensor wire entry) Dia. = 4.0mm

920 1,000s more products available at www.farnell-newarkinone.com

997.00

1,049.00

Prices are in Thai Baht and exclude 7% VAT Due to the volatile nature of certain products, prices are subject to change without notice.

C = CYAN M = Magenta Y = Yellow B = Black/THAI

335-8173

Type T x 25M Reel