

# HEATSENSE®

C A B L E S

Specialist High-Performance Solutions

## HEATSENSE SPECIFICATION DATA SHEET

### CABLE TYPE

ETFE INSULATED / SHEATHED THERMOCOUPLE CABLES


### GENERAL DESCRIPTION


THERMOCOUPLE, EXTENSION AND COMPENSATING CABLES FOR USE OVER WIDE TEMPERATURE RANGE AS A FLEXIBLE, TOUGH, COMPARATIVELY LOW DIAMETER CABLE IN AUTOCLAVE, LABORATORY, STERILISER APPLIANCES AND ELECTRICAL EQUIPMENT APPLICATIONS, UTILIZING VARIOUS CONSTRUCTIONS.


### RELEVANT STANDARDS


IEC 60584/2, ANSI MC96.1, ASTM E230  
IEC 60584/3, ANSI MC96.1, ASTM E230

THERMOCOUPLE  
EXTENSION/COMPENSATING

| TWISTED PAIR -75°C to +150°C  |                |                            |               |                |                      |   |   |   |   |             |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.50          | 1.00           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.60          | 1.20           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.80          | 1.60           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.90          | 1.80           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.13          | 2.26           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

| TWISTED PAIR, SHEATHED -75°C to +150°C  |                |                            |               |                |                      |   |   |   |   |             |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.50          | 1.40           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.60          | 1.60           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.80          | 2.00           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.90          | 2.20           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.13          | 2.66           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

| TWISTED PAIR, SCREENED AND SHEATHED -75°C to +150°C                                 |                |                            |               |                |                      |   |   |   |   |             |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.50          | 1.85           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.60          | 2.05           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.80          | 2.45           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.90          | 2.75           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.13          | 3.21           | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

| FLAT TWIN -75°C to +150°C   |                |                            |               |                |                      |   |   |   |   |             |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.50          | 1.40 x 0.90    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.60          | 1.60 x 1.00    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.80          | 2.00 x 1.20    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.90          | 2.20 x 1.30    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.13          | 2.66 x 1.53    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

\*Above are just a standard selection of TH, EX & CO cables. Heatsense can offer all thermocouple types in any country code colours, please contact our sales office for any requirement.

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