

# HEATSENSE®

C A B L E S

Specialist High-Performance Solutions

## HEATSENSE SPECIFICATION DATA SHEET

**CABLE TYPE**

IMPREGNATED GLASS 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 LABORATORY, STERILISER APPLIANCES AND ELECTRICAL EQUIPMENT APPLICATIONS, UTILIZING VARIOUS CONSTRUCTIONS.


**RELEVANT STANDARDS**

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


**FLAT TWIN, SHEATHED, OVER-BRAIDED -75°C to +400°C**

| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.40          | 1.75 x 1.35    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.50          | 1.95 x 1.45    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.70          | 2.35 x 1.65    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.80          | 2.55 x 1.75    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.03          | 3.01 x 1.98    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |


**FLAT TWIN -75°C to +400°C**

| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.40          | 1.20 x 0.80    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.50          | 1.40 x 0.90    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.70          | 1.80 x 1.10    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.80          | 2.00 x 1.20    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.03          | 2.46 x 1.43    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

**FLAT TWIN, SHEATHED, OVER-BRAIDED -75°C to +700°C**

| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.40          | 1.75 x 1.35    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.50          | 1.95 x 1.45    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.70          | 2.35 x 1.65    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.80          | 2.55 x 1.75    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.03          | 3.01 x 1.98    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

**FLAT TWIN -75°C to +700°C**

| Construction  | Conductor Size | Approximate Equivalent AWG | Core Diameter | Cable Diameter | Available Standards* |   |   |   |   | Part Number |
|---|----------------|----------------------------|---------------|----------------|----------------------|---|---|---|---|-------------|
|   |                |                            |               |                | K                    | T | J | N | E |             |
|  | 01/0.200mm     | 32                         | 0.40          | 1.20 x 0.80    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.300mm     | 28                         | 0.50          | 1.40 x 0.90    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 01/0.500mm     | 24                         | 0.70          | 1.80 x 1.10    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 07/0.200mm     | 24                         | 0.80          | 2.00 x 1.20    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |
|   | 13/0.200mm     | 22                         | 1.03          | 2.46 x 1.43    | ✓                    | ✓ | ✓ | ✓ | ✓ |             |

\*Above are just a standard selection of TH, EX & CO cables. Heatsense can offer all thermocouple types in any country code colours, in twisted, screened, jacketed constructions (if possible) as required. Please contact our sales office for any requirement.

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