

# Data Cable

**Part No:** MC78S

**Description**

Stranded 24AWG (7/0.2mm) TACW, 8Cores, PVC Insulation, Aluminium Polyester Tape Overall Screen, 24AWG (7/0.2mm) TACW Drain Wire, PVC Sheath..

**Applicable Standards**

AS/CA S-008, EIA-RS232, AS 1049

**Suitable Applications**

For use in the communications, industrial and security sectors, This product can be used to interconnect DTE equipment such as Printers, fax's, modems, and consoles. In the industrial environment, this product can be used to connect instruments and sensors to data loggers, PLC's and other control equipment. In the security market, this product can be used to connect motion sensors, entry sensors, card readers and door strikes to monitoring units. Not suitable for direct connection to mains equipment.

## Images

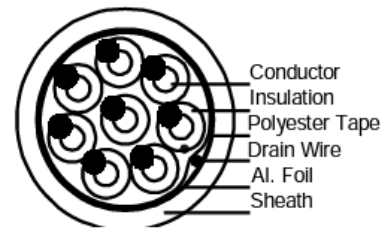
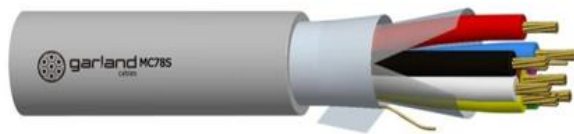


Image for Illustration purposes only



# Data Cable

## Construction

|                   |                        |   |
|-------------------|------------------------|---|
| <b>Conductor</b>  | Material               | TACW  |
|                   | Size                   | 24 AWG  |
|                   | Stranding              | 7/0.2 mm  |
|                   | Area                   | 0.22 mm <sup>2</sup>                                  |
|                   | Diameter               | 0.6 mm  |
| <b>Insulation</b> | Cores                  | 8   |
|                   | Material               | PVC   |
|                   | Colour                 | Yellow, Red, Black, White, Brown, Green, Violet, Blue |
|                   | Nominal Thickness (mm) | 0.28  |
| <b>Screen</b>     | Nominal OD (mm)        | 1.2   |
|                   | Material               | Aluminium/Polyester Laminate                          |
|                   | Coverage               | 100%  |
| <b>Sheath</b>     | Drain wire             | 7/0.2mm TACW  |
|                   | Material               | PVC   |
|                   | Colour                 | Grey (RAL 7046)                                       |
|                   | Nominal Thickness (mm) | 0.7 mm  |
|                   | Nominal OD (mm)        | 5.9 mm  |

## Electrical Properties

|                                     |               |
|-------------------------------------|---------------|
| Rated Voltage                       | 300V          |
| Max. Conductor DC Resistance @ 20°C | 93.3 Ω/km     |
| Min. Insulation Resistance @ 20°C   | 50 MΩ.km      |
| Voltage Test: core to core          | 1.5kV ac/1min |
| Voltage Test: core to sheath        | 3.0kV ac/1min |
| Voltage Test: shield to sheath      | 3.0kV ac/1min |

## Fire and Flame performance

|                  |             |
|------------------|-------------|
| Flame retardancy | IEC 60332-1 |
|------------------|-------------|

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## Mechanical Properties

|                                  |             |
|----------------------------------|-------------|
| Operating Temperature Range      | -15 to 80°C |
| Max. Recommended Pulling Tension | 123 N       |
| Min. Bend Radius (Install)       | 59 mm       |
| Approximate Mass                 | 5.2 kg/100m |

Sheath Printing

 GARLAND DATA CABLE MC78S - AWM 2464 80°C 300V 8 X 7/0.2 24AWG OAS - MM/YYYY - "Mmark"

## Supply Information

| Product No | Pack Type    | Pack Size | Dimensions            | Qty Per Carton | Cartons Per Pallet |
|------------|--------------|-----------|-----------------------|----------------|--------------------|
| MC78S100   | Plastic Reel | 100 m     | F 4.5" x W 10"        | 4R             | TBA                |
| MC78S300B  | Reel Box     | 300 m     | 15.5" x 15.5" x 7.75" | 1 box          | TBA                |
| MC78S500   | Wooden Reel  | 500 m     | TBA                   | 1 Reel         | TBA                |

## Change Record

| Issue | Date       | Prepared By | Approved By |
|-------|------------|-------------|-------------|
| 02    | 18-07-2023 | GK          | GK          |
| 01    | 29-11-2012 | LLS         | Pent        |

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances

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