



**Description**

AMP Netconnect internal/external loose tube cables consist of a range of mono-tube designs (4-16 fibres) and multi-loose tube designs (24-96 fibres). For the 4-12 fibre designs, all the fibres are contained within a 2.8mm single tube construction. For 16 fibre designs all the fibres are contained within a 4.0mm single tube construction. The 24-96 fibre designs contain 12 fibre, 2.8mm tubes stranded around a GRP central strength member. All these constructions are then strengthened using aramid yarn strength members and finally a ULSZH (Universal Low Smoke Zero Halogen) jacket.

**Specification**

AMP Netconnect cables are designed and manufactured with our dedicated modern facilities and all activities are controlled within ISO 9001:2000 approved systems. All our products have undergone extensive type approval testing to IEC 60794 (EN 187 000) and IEC 60793 (EN 188 000) using the latest testing facilities.

AMP Netconnect cables are designed and tested to conform to the fibre and cable performance requirements of, ISO 11801, and TIA/EIA B. The optical fibre specifications are guaranteed installed minimum performance (subject to correct installation and environment). If a higher performance fibre is required please contact our local sales team. Accordingly, the cables meet or exceed all of the performance requirements for current and proposed applications such as IEEE 802.3 Ethernet (including 10 Gigabit Ethernet).

All mono-tube cable constructions consist of [one, two, four, six, eight, twelve, sixteen & twenty-four] primary coated 250µm [singlemode, 50/125µm or 62.5/125µm] fibers. All multi-loose tube cable constructions consist of [twenty-four, forty-eight, seventy-two or ninety-six] primary coated 250µm [singlemode, 50/125µm or 62.5/125µm] fibers. Each construction incorporates colour-coded fibers reinforced by aramid yarn strength members and over-sheathed with ULSZH material for indoor/outdoor applications meeting IEC fire performance requirements.

The cable shall comply with the relevant performance requirements listed in the Performance Characteristics table The temperature ratings for storage, shipping, installation and operation shall comply with the Temperature Ratings table (see performance and temperature charts)



|                   |                    |                 |            |          |                        |                            |
|-------------------|--------------------|-----------------|------------|----------|------------------------|----------------------------|
| <b>Drawing no</b> | 114-92010          | <b>Drawn</b>    | L. Taylor  | 10/12/03 | <b>Revision Record</b> | <b>Drawing Location: E</b> |
| <b>Name</b>       | Warranty cut sheet | <b>Checked</b>  | D. Walker  | 10/12/03 |                        |                            |
| <b>Revision</b>   | A                  | <b>Approved</b> | A. Gibbons | 10/12/03 |                        | <b>Sheet 1 of 3</b>        |

**Part numbers**

| Jacket Colour | Fibre Type / classification | Fibre Bandwidth (dB/km) @850nm/1300nm | Suffix = y |
|---------------|-----------------------------|---------------------------------------|------------|
| Gold          | 50/125 OM3                  | 1500/500                              | 3          |
| Yellow        | 9/125 OS1                   | N/a                                   | 4          |
| Orange        | 62.5/125 OM1                | 200/600                               | 5          |
| Orange        | 50/125 OM2+                 | 600/1200                              | 6          |
| Orange        | 50/125 OM2                  | 500/500                               | 7          |
| Orange        | 62.5/125 OM1+               | 250/800                               | 9          |

| Part Description | Part Numbers | Part Description | Part Numbers |
|------------------|--------------|------------------|--------------|
| 4 fibre IEGLT    | x-599160-y   | 4 fibre IEDLT    | x-599152-y   |
| 6 fibre IEGLT    | x-599161-y   | 6 fibre IEDLT    | x-599153-y   |
| 8 fibre IEGLT    | x-599162-y   | 8 fibre IEDLT    | x-599154-y   |
| 12 fibre IEGLT   | x-599164-y   | 12 fibre IEDLT   | x-599156-y   |
| 16 fibre IEGLT   | x-599165-y   | 16 fibre IEDLT   | x-599157-y   |
| 24 fibre IEGLT   | x-599167-y   | 24 fibre IEDLT   | x-599159-y   |
| 48 fibre IEGLT   | x-599609-y   | 48 fibre IEDLT   | x-599605-y   |
| 72 fibre IEGLT   | x-599610-y   | 72 fibre IEDLT   | x-599606-y   |
| 96 fibre IEGLT   | x-599611-y   | 96 fibre IEDLT   | x-599607-y   |

\* x = 1 for 1km, 2 for 2km

**Mechanical Performance Specifications:**

All AMP Netconnect cables are designed and tested using our dedicated modem facilities and all activities are controlled within ISO 9001:2000 approved systems

**Mechanical Specifications**

| Tyco PN    | Nominal O.D. mm | Sub Units        |         | Minimum Bend Radius |              | Nominal Weight Kg/km | Rated Tensile Load |             |
|------------|-----------------|------------------|---------|---------------------|--------------|----------------------|--------------------|-------------|
|            |                 | N <sup>o</sup> . | O.D. mm | Install mm          | Long Term mm |                      | Installation N     | Long Term N |
| x-599160-y | 6.4             | 1                | 2.8     | 140                 | 130          | 33                   | 500                | 400         |
| x-599161-y | 6.4             | 1                | 2.8     | 140                 | 130          | 33                   | 500                | 400         |
| x-599162-y | 6.4             | 1                | 2.8     | 140                 | 130          | 33                   | 500                | 400         |
| x-599164-y | 6.4             | 1                | 2.8     | 140                 | 130          | 33                   | 500                | 400         |
| x-599165-y | 7.5             | 1                | 4.0     | 150                 | 145          | 44                   | 500                | 400         |
| x-599167-y | 11.5            | 4                | 2.8     | 230                 | 170          | 125                  | 1000               | 600         |
| x-599609-y | 11.5            | 4                | 2.8     | 230                 | 170          | 125                  | 1000               | 600         |



|                   |                    |                 |            |          |                        |                            |
|-------------------|--------------------|-----------------|------------|----------|------------------------|----------------------------|
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| <b>Name</b>       | Warranty cut sheet | <b>Checked</b>  | D. Walker  | 10/12/03 |                        |                            |
| <b>Revision</b>   | A                  | <b>Approved</b> | A. Gibbons | 10/12/03 |                        | Sheet 2 of 3               |

| Tyco PN    | Nominal O.D. mm | Subunits |         | Minimum Bend Radius |              | Nominal Weight kg/km | Rated Tensile Load |             |
|------------|-----------------|----------|---------|---------------------|--------------|----------------------|--------------------|-------------|
|            |                 | No.      | O.D. mm | Install mm          | Long Term mm |                      | Installation N     | Long Term N |
| x-599610-y | 12.7            | 6        | 2.8     | 250                 | 180          | 155                  | 2700               | 2200        |
| x-599611-y | 15.0            | 8        | 2.8     | 300                 | 200          | 210                  | 2700               | 2200        |
| x-599152-y | 6.4             | 1        | 2.8     | 140                 | 130          | 31                   | 500                | 400         |
| x-599153-y | 6.4             | 1        | 2.8     | 140                 | 130          | 31                   | 500                | 400         |
| x-599154-y | 6.4             | 1        | 2.8     | 140                 | 130          | 31                   | 500                | 400         |
| x-599156-y | 6.4             | 1        | 2.8     | 140                 | 130          | 31                   | 500                | 400         |
| x-599157-y | 7.5             | 1        | 4.0     | 150                 | 145          | 43                   | 500                | 400         |
| x-599159-y | 11.5            | 4        | 2.8     | 230                 | 170          | 105                  | 1000               | 600         |
| x-599605-y | 11.5            | 4        | 2.8     | 230                 | 170          | 105                  | 1000               | 600         |
| x-599606-y | 12.7            | 6        | 2.8     | 250                 | 180          | 149                  | 2700               | 2200        |
| x-599607-y | 15              | 8        | 2.8     | 300                 | 200          | 195                  | 2700               | 2200        |

x = 1km, 2km

**Temperature Ratings**

| Cable Type      | Operation      |
|-----------------|----------------|
| IE-DLT (2-16f)  | -10°C to +60°C |
| IE-DLT (24-96f) | -10°C to +70°C |
| IE-GLT (2-16f)  | -20°C to +60°C |
| IE-GLT (24-96f) | -25°C to +70°C |

**Cable Print:**

An Example of the print format on the cables is as follows:

e.g. „AMP NETCONNECT F.O. CABLE X-599152-3 INT/EXT DRY LOOSE TUBE 4 X 50/125 OM3“

**AMP Netconnect Phone Numbers for Europe/Middle East/Africa:**

|                                 |                                |                                  |                                    |
|---------------------------------|--------------------------------|----------------------------------|------------------------------------|
| <b>Austria</b> 43-1-90560-0     | <b>Belgium</b> 32-16-352-300   | <b>Bulgaria</b> 359-2-971-2152   | <b>Czech Rep.</b> 420-5-41-162-112 |
| <b>Denmark</b> 45-70-15-52-00   | <b>Egypt</b> 20-2-417-7647     | <b>Finland</b> 358-95-12-34-20   | <b>France</b> 33-1-3420-2122       |
| <b>Germany</b> 49-6103-709-1547 | <b>Greece</b> 30-210-9370-396  | <b>Hungary</b> 36-1-289-1007     | <b>India</b> 91-80-8412433         |
| <b>Ireland</b> 353-1-820-3000   | <b>Italy</b> 39-011-4012-111   | <b>Lithuania</b> 370-5-213-1402  | <b>Netherlands</b> 31-73-6246-246  |
| <b>Norway</b> 47-66-77-88-99    | <b>Poland</b> 48-22-5490-888   | <b>Romania</b> 40-21-311-3479    | <b>Slovenia</b> 386-1561-3270      |
| <b>S. Africa</b> 27-41-405-4500 | <b>Spain</b> 34-93-291-0330    | <b>Sweden</b> 46-8-5072-5000     | <b>Switzerland</b> 41-71-447-0447  |
| <b>Turkey</b> 90-212-281-8181   | <b>Ukraine</b> 38-044-238-6908 | <b>U.A.E.</b> 971-4-339-1199     | <b>United K.</b> 44-208-420-8140   |
| <b>Russia:</b>                  | <b>Moscow</b> 7-095-926-5509   | <b>Petersburg</b> 7-812-118-8192 |                                    |

For Middle East & African Countries not shown: 33-1-3420-2122  
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|                   |                    |                 |            |          |                        |                            |
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| <b>Revision</b>   | A                  | <b>Approved</b> | A. Gibbons | 10/12/03 |                        | Sheet 3 of 3               |