



## TECHNICAL DATA SHEET

**25pr CAT. 5 UTP cable**

**25x(2x(0.5B) PP LSNH**

code **YE00667**

version **1**

date **2005-03-09**

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### APPLICATION

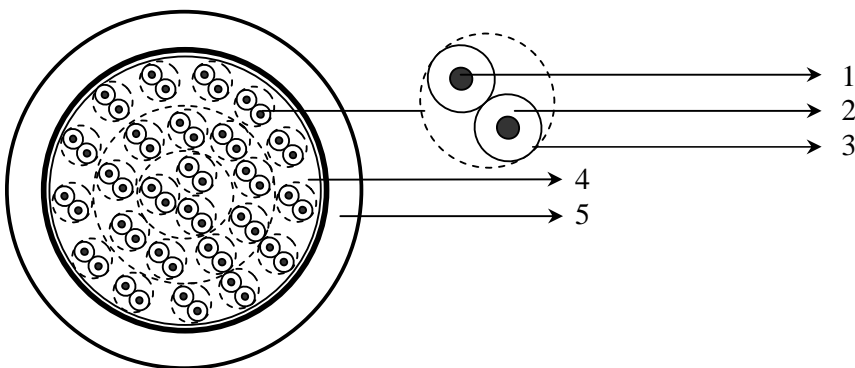
Limited fire hazard twisted pair communication cable complies to London Underground Ltd. specification G7623 and E4156 A3, cables part 1.

For use in non safety critical circuits.

Indoor use only.

Temperature rating : -15C to +55C

### CONSTRUCTION



#### 1. Conductor

Material:

solid bare copper wire

Diameter of conductor

0.5 (AWG24)

#### 2. Insulation

Material

Solid polypropylene

Diameter

0.98 +/- 0.03 mm

#### 3. Pair.

Two wires twisted into a pair

Lay length

max. 40 mm

#### 4. Cable core

The cable core consists of 25 pairs

#### 5. Sheath

Material

FRNC (UV stabilised)

Nominal diameter over sheath

14.5 mm

Average wall thickness

1.75 mm

Ripcord

Provided under the sheath.

Colour of sheath

Purple (like RAL4005)

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Pair No.	Colour	Pair No.	Colour
1	White – blue	14	Black – brown
2	White – orange	15	Black – grey
3	White – green	16	Yellow – blue
4	White – brown	17	Yellow – orange
5	White – grey	18	Yellow – green
6	Red – blue	19	Yellow – brown
7	Red – orange	20	Yellow – grey
8	Red – green	21	Purple – blue
9	Red – brown	22	Purple – orange
10	Red – grey	23	Purple – green
11	Black – blue	24	Purple – brown
12	Black – orange	25	Purple – grey
13	Black – green		

Table 1: colour coding of the pairs.

**REQUIREMENTS AND TEST METHODS****Electrical :**

Resistance conductor @ 20°C

< 93.8  $\Omega$ /km

Nominal mutual capacitance @ 1kHz

50 pF/m

Fitted Impedance @ 1 – 100 MHz

100 +/- 15  $\Omega$ 

Frequency (MHz)	Maximum Attenuation (dB/100m)	Minimum PSNext (dB)	Minimum structural Return Loss (dB)
1	2.0	62.3	23.0
4	4.1	53.3	23.0
8	5.8	48.8	23.0
10	6.5	47.3	23.0
16	8.2	44.3	23.0
20	9.3	42.8	23.0
25	10.4	41.3	23.0
31.25	11.7	39.9	21.1
62.5	17.0	35.4	18.0
100	22.0	32.3	16.0

**Mechanical & physical:**

Tensile strength sheath

> 10.0 N/mm<sup>2</sup>

Elongation sheath

&gt; 100%

Fire performance

E4156 Part 2

Bending radius of cable (D = diameter over sheath)

&gt; 5 \* D

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Temperature range operating

-15°C to +55°C

Temperature range storage

-40°C to +70°C

**MARKING (On cable sheath)**

BELDEN VENLO HOLLAND LSC 25/0.5 TYPE 2 LSNH PLUS UV YYYY + metermarking

(YYYY represents: year of manufacture)

**PACKAGING**

On non-returnable reels.

Each reel is labelled with the following data:

Belden logo

Belden code number

Item description

Length on the reel

Date of manufacture (month and year)