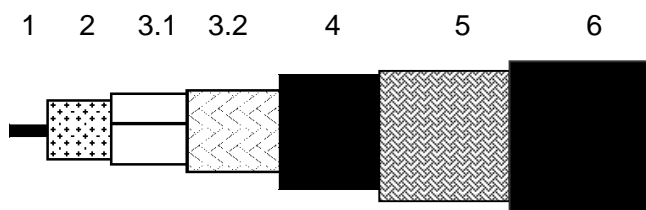
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## APPLICATION

Cable fulfills according standard E4156.1-A3 and E4156.2-A4 of London Underground

## CONSTRUCTION



1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE (color white)
3	Inner Shield	
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Covering	LSNH/FRNC according the European Standard HD 624. Color RAL 9005 (black).
5	Outer Shield (Braid)	Annealed copper
6	Sheath	LSNH/FRNC according the European Standard HD 624.

Color RAL 9005 (black)

## REQUIREMENTS AND TEST METHODS


Test methods in accordance with European standard EN 50117-1.

### Mechanical characteristics

1. Inner conductor.	
Diameter:	1.00 mm ± 0.03 mm
Elongation at break:	≥ 15%
2. Dielectric:	
Diameter:	4.4 mm ± 0.15 mm
3. Inner Shield:	
Diameter screen:	5.0 mm ± 0.2 mm
Foil overlap:	≥ 2 mm
Coverage braid:	38 % ± 4 %

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4. Inner sheath:

Diameter:	7.0 mm ± 0.2 mm
Nominal wall thickness	1.0 mm
Tensile strength:	≥ 9.0 N/mm <sup>2</sup>
Elongation at break:	≥ 125 %

5. Outer Shield:

Diameter screen:	7.5 mm ± 0.3 mm
Coverage braid:	60 % ± 5 %

6. Outer sheath:

Diameter:	8.8 mm ± 0.3 mm
Nominal wall thickness	0.65 mm
Tensile strength:	≥ 9.0 N/mm <sup>2</sup>
Elongation at break:	≥ 125 %
UV resistant	yes

Cable:


Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-15°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	90 mm
Total weight and copper weight:	99.0 and 30.15 kg/km

**Electrical characteristics**

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC resistance inner conductor:	≤ 23 Ω/km
DC resistance inner shield:	≤ 19 Ω/km
DC resistance outer shield:	≤ 14 Ω/km
Capacitance inner conductor to shield:	53 pF/m ± 2 pF/m
Velocity ratio:	0.84 ± 0.02
Insulation resistance:	> 10 <sup>4</sup> MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	≥ 75 dB

Return loss at	5-30 MHz:	≥ 23 dB*
	30-470 MHz:	≥ 23 dB*
	470-862 MHz:	≥ 20 dB*
	862-2150 MHz:	≥ 18 dB*

\*Max. 3 peak values 4 dB lower than specified.

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Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.3 dB/100m	800 MHz:	18.5 dB/100m
50 MHz:	4.3 dB/100m	1000 MHz:	20.9 dB/100m
100 MHz:	6.1 dB/100m	1350 MHz:	24.7 dB/100m
200 MHz:	8.8 dB/100m	1750 MHz:	28.6 dB/100m
400 MHz:	12.7 dB/100m	2150 MHz:	32.1 dB/100m
600 MHz:	15.8 dB/100m	2400 MHz:	34.2 dB/100m

Maximum attenuation is 10% higher.

**LIFE EXPECTANCY:**

Belden has designed the triax H124 for a performance lifetime expectancy of 40 years, and we actually guarantee this cable for 15 years.

**REVISIONS**

#	Description	Date	Initials



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.