

# Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca 100 m Reel White

excel  
without compromise.

Part Code: TC050PE1W-LSF

sales@excel-networking.com  
excel-networking.com

CIBSE TM65 Embodied Carbon: 181.182 kg CO2e



## Main Features

- / Available in 10/20/25/32/40/50/100-Pair
- / Choice of reel sizes
- / Cut to length service above 20 Pair
- / LSF outer sheath
- / 25 Year system warranty
- / Euroclass Eca

## Product Overview

Excel multipair internal telephone cables are manufactured in accordance with BT type CW1308. These cores are twisted into pairs and the required number are sheathed together to form the cable. Groups of pairs are bundled together for ease of identification. An earth conductor of 1.38 mm plain copper is included.

The print legend on the cable now includes information regarding the DOP number, Test and Classification of the cable for traceability.

## Product Specifications

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Feature	Values
Diameter of conductor	0.5 mm
Conductor category	Class 1 = solid
Total number of cores	100
Stranding element	Pairs
Core insulation	Polyvinyl chloride (PVC)
Core identification	Colour + rings
Overall screening	None
Pair grouping identification	Bundles and layers
Conductor screening	None
Protective sheath	None
Outer sheath material	Polyvinyl chloride (PVC)
Outer sheath colour	White
Flame retardant according to IEC 60332-1-2	yes
Reaction-to-fire class according to EN 13501-6	Eca
Outer diameter approx.	17 mm
Category	Voice

## Additional specifications

Features	Values
Conductor Diameter	0.50 mm Nominal
Insulation (up to 25 Pairs)	0.85 +/- 0.005 mm
Insulation (50-100 Pairs)	1.2 +/- 0.005 mm
Insulation (200 Pairs)	2.0 +/- 0.005 mm

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Elongation	18 to 24 %.
Spark Test	4.5 KVDC
Conductor Resistance	97.80 ohms / Km at 20 deg. C
Capacitance Unbalance P to P	500 pF / 500m

## Binder colour scheme

Cables	50 Pair	100 Pair	200 Pair
Centre layer	5 x 10 Pairs	1 x 20 Pairs	
First Layer	Orange (10p)	8 x 10 Pairs	
Unit Binder Colours	White (10p)	Orange (20p)	White/Blue (12p)
	White (10p)	Orange (10p)	White/Blue (13p)
	White (10p)	White (10p)	White/Orange (12p)
	Orange (10p)	White (10p)	White/Orange (13p)
		White (10p)	White/Green (25p)
		White (10p)	White/Brown (25p)
		White (10p)	White/Slate (25p)
		White (10p)	Red/Blue (25p)
		Green (10p)	Red/Orange (25p)
		Red/Green (25p)	

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## Pair colour scheme

Pair	A	B
1	WHITE-blue	BLUE-white
2	WHITE-orange	ORANGE-white
3	WHITE-green	GREEN-white
4	WHITE-brown	BROWN-white
5	WHITE-slate	SLATE-white
6	RED-blue	BLUE-red
7	RED-orange	ORANGE-red
8	RED-green	GREEN-red
9	RED-brown	BROWN-red
10	RED-slate	SLATE-red
11	BLACK-blue	BLUE-black
12	BLACK-orange	ORANGE-black
13	BLACK-green	GREEN-black
14	BLACK-brown	BROWN-black
15	BLACK-slate	SLATE-black
16	YELLOW-blue	BLUE-yellow
17	YELLOW-orange	ORANGE-yellow
18	YELLOW-green	GREEN-yellow
19	YELLOW-brown	BROWN-yellow
20	YELLOW-slate	SLATE-yellow
21	VIOLET - blue	BLUE - violet
22	VIOLET - orange	ORANGE - violet

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23	VIOLET - green	GREEN - violet
24	VIOLET - brown	BROWN - violet
25	VIOLET - slate	SLATE - violet

## Earth conductor specifications

Features	Values
Conductor Diameter	<b>1.38 mm Nominal.</b>
Insulation	<b>2.70 +/- 0.05 mm</b>
Conductor Resistance	<b>12.40 ohms / Km at 20 deg. C</b>
Insulation colour	<b>Cream</b>

## Standards

Applicable standard	Detail
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
EN 50575: 2014 + A1: 2016	Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements
BS 6746:1990	Specification for PVC insulation and sheath of electric cables
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in

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the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).

ECHA SCIP Database

Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.

Regulation (EU) 2019/1021 (POPs)

EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).

UK SI 2012 No. 3032

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

## Part Code Table

Part Code	Description
TC010PE1W-LSF	Excel CW1308 10 Pair+Earth Internal Telephone Cable LSF Eca 100 m Reel White
TC020PE1W-LSF	Excel CW1308 20 Pair+Earth Internal Telephone Cable LSF Eca 100 m Reel White
TC020PEW-LSF	Excel CW1308 20 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White
TC025PE1W-LSF	Excel CW1308 25 Pair+Earth Internal Telephone Cable LSF Eca 100 m Reel White
TC025PEW-LSF	Excel CW1308 25 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White
TC032PEW-LSF	Excel CW1308 32 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White
TC040PEW-LSF	Excel CW1308 40 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White

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TC050PE1W-LSF	<b>Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca 100 m Reel White</b>
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TC050PE2W-LSF	<b>Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca 200 m Reel White</b>
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TC050PEW-LSF	<b>Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White</b>
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TC100PEW-LSF	<b>Excel CW1308 100 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White</b>
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