

Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White

Item Code: TC050PEW-LSF

excel
without compromise.



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

CIBSE TM65 Embodied Carbon: 1.812 kg CO2e

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

| 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 |

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| | |
|--|--------------------------|
| 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 |
| 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) |

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| | | |
|--|-------------|-------------------|
| | White (10p) | White/Slate (25p) |
| | White (10p) | Red/Blue (25p) |
| | Green (10p) | Red/Orange (25p) |
| | | Red/Green (25p) |

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 |
| 23 | VIOLET - green | GREEN - violet |
| 24 | VIOLET - brown | BROWN - violet |

25

VIOLET - slate

SLATE - violet

Earth conductor specifications

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

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 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. |

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Part Number Table

| Part Number | 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 |
| TC050PE1W-LSF | Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca 100 m Reel White |
| TC050PE2W-LSF | Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca 200 m Reel White |
| TC050PEW-LSF | Excel CW1308 50 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White |
| TC100PEW-LSF | Excel CW1308 100 Pair+Earth Internal Telephone Cable LSF Eca Per Metre White |

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at sales@excel-networking.com



E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.