



☒ Available in 5/10/20/50/100/200 pairs

☒ Cut to length

☒ UV and moisture resistant

☒ 25 Year system warranty

☒ CIBSE TM65 Embodied Carbon: 4.550 kg CO₂e

Product Overview

Excel telecommunication cables are made up from conductors of solid plain copper insulated with cellular (foamed) polyethylene. These conductors are twisted into pairs and the required number of pairs are laid up into units which are identified by coloured tapes.

The cables are petroleum jelly filled and sheathed in black polyethylene, and are manufactured in accordance with BT type CW 1128.

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	200
Stranding element	Pairs
Specification core insulation	Polyethylene (PE)
Core identification	Colour + rings
Pair grouping identification	Layers
Longitudinal water blocking cable	yes
Outer sheath material	PE
Outer sheath colour	Black
Flame retardant according to IEC 60332-1-2	no

Low smoke (acc. IEC 61034-2)	no
Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	22 mm
Category	Voice

Additional specifications

Features	Values
Conductor Diameter	0.50 mm Nominal
Insulation	1.8 +/- 0.005 mm
Elongation	18 to 24 %.
Spark Test	4.5 KVDC
Conductor Resistance	96 ohms / Km at 20 deg. C
Capacitance Unbalance P to P	275 pF / 500m

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

Binder colour scheme

Cables	20 Pair	50 Pair	100 Pair
Centre layer	2 x 10 Pairs	5 x 10 Pairs	3 x 10 Pairs
First Layer			7 x 10 Pairs
Unit Binder Colours	Blue (10p)	Blue (10p)	Blue (10p)
	Orange (10p)	Orange (10p)	Orange (10p)
		Green (10p)	Green (10p)
		Brown (10p)	Brown (10p)
		Slate (10p)	Slate (10p)
			White (10p)
			Red (10p)
			Black (10p)
			Yellow (10p)
			Violet (10p)

Standards

Applicable standard	Detail
RoHS-II/-III (2011/65/EU & 2015/863): 2023	Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).
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
WFD: 2023	Compliant to Waste Framework Directive
SCIP: 2023	Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
POPs (EU) No 2019/1021	EU Regulation for the restriction of Persistent Organic Pollutants.

Part Number Table

Part Number	Description
TCJF5005PB	Excel CW1128 5 Pair 1/0.50 mm External Telephone Cable Fca Per Metre Black
TCJF5010PB	Excel CW1128 10 Pair 1/0.50 mm External Telephone Cable Fca Per Metre Black
TCJF5020PB	Excel CW1128 20 Pair 1/0.50 mm External Telephone Cable Fca Per Metre Black
TCJF5050PB	Excel CW1128 50 Pair 1/0.50 mm External Telephone Cable Fca Per Metre Black
TCJF5100PB	Excel CW1128 100 Pair 1/0.50 mm External Telephone Cable Fca Per Metre Black
TCJF5200PB	Excel CW1128 200 Pair 1/0.50mm External Telephone Cable Fca Per Metre Black

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

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