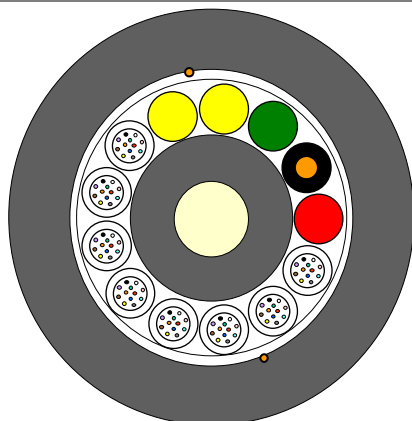


## Loose Tube Duct Cable –BT Specification CW1804

### Cable Design



- not to scale -  
96 fibre illustrated

- **Optical fibre:** Singlemode CW1505
- **Central strength member (CSM):** Coated GRP (glass reinforced plastic).
- **Tubes:** Thermoplastic material, each containing 12 optical fibres and filled with a suitable water tightness compound.
- **Copper:** 0.5mm Copper wire polyethylene insulated wire.
- **Stranding:** The required number of elements (tubes, fillers and copper core) are SZ stranded around the central strength member.
- **Core:** The cable core is dry water-blocked.
- **Outer Sheath:** Polyethylene. 2 ripcords beneath the sheath.

Optical cable suitable for outdoor duct installations.

### Technical data

No. of Fibres	12	24	48	72	96	144
Design ref	60041361	60041363	60041365	60041371	60041367	60041370
Layout (tubes x fibres)	1x12	2x12	4x12	6x12	8x12	12x12
Loose Tube / Filler - Ø	mm		1.9			
CSM/Sheath diameter	mm		3.5/6.3			
Outer Sheath thickness	mm		1.3			
Cable Diameter	mm		12.8			
Cable Weight	kg / km		130			
Max installation tension	N		2000			
Min. setting diameter	mm		400			
Temperature range	°C		Installation -10 -> +40;	Transport. & Storage -30 -> +70 ;		Operation -10 -> +40

Please refer to our General Installation, Safety & Handling recommendations handling.

### Main characteristics

Test	Standard	Value	Requirement*
Maximum Tension at installation (short term)	CW1804 10.1.1	See table above	Fibre strain $\leq$ 0.4%, $\Delta\alpha$ reversible
Crush	CW1804 10.1.3	2000N / 100mm	$\Delta\alpha \leq$ 0.05dB , cable integrity
Cable bend	CW1804 10.1.4	D=12 x cable D, 3 turns, 5 cycles	$\Delta\alpha \leq$ 0.05 dB, cable integrity
Impact	CW1804 10.1.5	10Nm, R=12.5mm,	$\Delta\alpha \leq$ 0.05 dB, cable integrity
Temperature range	CW1804 10.2.1	-10°C to +40°C	$\Delta\alpha \leq$ 0.05 dB/km

\*all optical measurements performed at 1550 nm

## Optical Characteristics

See Optical fibre Datasheet Ref: Singlemode CW1505 (GB)

## Identification

### Fibre Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Red	Grey	Yellow	Brown	Violet	Black	White	Pink	Turquoise

### Element Construction (96F)

Element Number	1	2	3	4	5	6	7	8	9	10	11	12	13
Element Colour	Red	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Yellow	Yellow	Green	Black
Element Type	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Filler	Filler	Filler	Copper

For 144 fibre design, elements 1-12 are all loose tubes, element 1 is red and element 12 green. All other tubes are natural. For designs less than 96F natural loose tubes are replaced by more yellow fillers as required.

### Sheath Colour:

The outer sheath colour is black.

### Sheath Marking:

The outer sheath is metre marked in 1 plane as follows:

*<length marking in metres>* \*  *<site identifier>* *< week and year of manufacture>*  
**OPTICAL FIBRE CABLE** *<cable batch number>* **COF 200** *<fibre count>F / <Fibre specification issue >*  
**PROPERTY OF BT** \* 

## Installation

### Duct:

Designed to be installed on ducts by blowing or pulling in.

## Logistic

### Packing:

Wooden drums with protection.

### Delivery Lengths:

Standard delivery length is 2.2 km

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