

**Part No:** C6FHR-B204  
**Description:** The TruLan Cat 6 F/UTP cable is the ideal choice for high speed data networks across a home or building.



**TESTED TO  
500MHz**

### Construction

**Conductor** : Bare Copper  
**AWG** : 23(1)  
**Insulation Material** : High Density Polyethylene (HDPE)  
**Number of Pairs** : 4  
**Pair Identification** : Blue, Blue/White; Orange, Orange/White  
 : Green, Green/White; Brown, Brown/White  
**Drain Wire** : 24(1)AWG Tinned Copper  
**Overall Screen** : Aluminium Foil (100% Coverage)  
**Outer Sheath Material** : Low Smoke Halogen Free (LSHF)  
**Outer Sheath Colour** : Orange



### Electrical Characteristics

**Max. Conductor Resistance @ 20°C** : ≤ 9.5 Ω/100m  
**Max. Resistance Unbalanced** : ≤ 2.5 %  
**Nominal Impedance (1-100MHz)** : 100 ± 15 Ω  
**Mutual Capacitance** : ≤ 5.6nF/100m  
**Capacitance Unbalanced to Earth** : ≤ 330 pF/ 100m  
**NVP** : 68.5 %  
**Max. Delay Skew** : ≤ 45 nS/ 100m  
**Voltage Rating EN 50525-1** : 450/750V\*  
**Test Voltage** : 2.5kV (AC)  
 \*Suitable for installation where Band II 450/750v cables are present. Not suitable for connection to mains supply

### Physical Characteristics

**Overall Diameter** : 7.2 ± 0.3mm  
**Bend Radius** : Fixed 4 x OD Flexing 8 x OD  
**Temperature Rating** : Fixed -20°C to 60°C Flexing -10°C to 60°C  
**Weight** : 58 kg/km

### Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	200	250	300	400	500	MHz
Attenuation	1.9	3.5	5.5	7.0	7.9	10.0	14.4	18.6	27.4	31.1	34.0	41.1	47.1	≤ dB
Return Loss	19.1	21.0	21.0	20.0	19.5	18.5	16.0	14.0	11.0	10.0	9.2	8.0	7.0	≥ dB
NEXT	65.0	64.1	57.8	54.6	53.1	50.0	45.1	41.8	36.0	35.3	34.0	31.9	30.4	≥ dB
PS NEXT	62.0	61.8	55.5	52.2	50.7	47.5	42.7	39.3	34.3	32.7	31.4	29.3	27.6	≥ dB
ACRF	64.2	52.1	44.2	40.1	38.2	34.3	28.3	24.2	18.2	16.2	14.6	12.1	10.2	≥ dB
PSACRF	61.2	49.1	41.2	37.1	35.2	31.3	25.3	21.2	15.2	13.2	11.6	9.1	7.2	≥ dB

### Standards

<b>Flame Retardant</b> : BS EN 60332-1-2	<b>Low Smoke Generation</b> : BS EN 61034-2
<b>Halogen Gas Emission</b> : BS EN 60754-1&2	<b>Manufactured in accordance to CPR Classification</b> : TIA/EIA 568-C.2, ISO/IEC 11801
<b>RoHS3 Compliance</b> : Yes	: B2ca s1a, d1, a1
<b>CE Compliant</b> : LVD (2014/35/EU), CPR (305/2011)	(EN50575:2014+A1:2016)