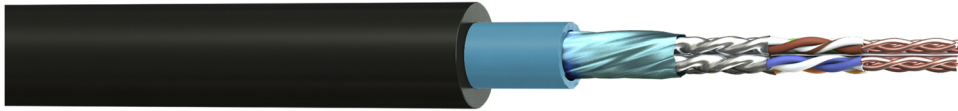


# TruLAN Cat 6A F/FTP Duct Grade Technical Datasheet

**Part No:** TR-4045  
**Description:** The TruLAN Cat 6A F/FTP cable is the ideal choice for high speed data networks and is suitable for external applications and running through ducting due to its heavy PE outer sheath.

**truLAN**



## Construction

**Conductor** : Bare Copper  
**AWG** : 23(1)  
**Insulation Material** : Skin-Foam-Skin  
**Number of Pairs** : 4  
**Pair Identification** : Blue/White, Orange/White,  
 : Green/White, Brown/White  
**Individual Screen** : Aluminium Foil, Each Pair (100% Coverage)  
**Drain Wire** : 0.40mm, Tinned Copper  
**Overall Screen** : Aluminium Foil (100% Coverage)  
**Inner Sheath Material** : Low Smoke Halogen Free (LSHF)  
**Inner Sheath Colour** : Blue  
**Outer Sheath Material** : Polyethylene (PE)  
**Outer Sheath Colour** : Black



## Electrical Characteristics

**Max. Conductor Resistance @ 20°C** : ≤ 9.5 Ω/100m  
**Max. Resistance Unbalanced** : ≤ 2.0 %  
**Nominal Impedance (1-100MHz)** : 100 ± 5 Ω  
**Mutual Capacitance** : ≤ 56 pF/m  
**Capacitance Unbalanced to Earth** : ≤ 1600 pF/ km  
**NVP** : 77 % ± 3  
**Max. Delay Skew** : ≤ 25 nS/ 100m  
**Voltage Rating EN 50525-1** : 125 V  
**Test Voltage** : 1kV (AC)

## Physical Characteristics

**Overall Diameter** : 10.0 ± 0.3mm  
**Bend Radius** : Fixed 4 x OD Flexing 8 x OD  
**Temperature Rating** : Fixed -20°C to 60°C Flexing -0°C to 50°C  
**Weight** : 79 kg/km

## Transmission Performance

Frequency	1	4	10	100	200	250	400	500	MHz
Attenuation	2.0	3.7	5.9	19.0	27.5	31.0	40.0	45.3	≤dB
Return Loss	34	30	27	20	18	17	16	15	≥dB
NEXT	75	66	60	45	41	39	36	35	≥dB
PS NEXT	72	63	57	42	38	36	33	32	≥dB
ACRF	68	56	48	28	22	20	16	14	≥dB
PS-ACRF	65	53	45	25	19	17	13	11	≥dB

## Standards

**RoHS3 Compliance** : Yes  
**CE Compliant** : LVD (2014/35/EU)  
**UV & Weather Resistant** : ISO 4892-3  
**Manufactured in accordance to** : TIA/EIA 568-C.2, ISO/IEC 11801 Class Ea, EN 50288-4-1, ISO/IEC 61156-5  
**CPR Classification** : Fca (EN50575:2014+A1:2016)

**Part Number:** C6GFFHD-F00  
**Date:** 28/10/2020  
**Revision:** 2.1  
**Author:** GB **Checked:** GB  
**Page Number:** 1 of 1

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