

**Part No:** C5ER2D-F00  
**Description:** Cat 5E U/UTP + 2 x 0.75mm<sup>2</sup> power cable in a Black PE jacket laid up in a shotgun/figure of 8 formation and is suitable for external applications.

truLAN  
 truSECURITY



### Construction

#### Cat 5E U/UTP

Conductor Material & Size : Bare Copper, 24(1)AWG  
 Insulation Material : Polyethylene (PE)  
 Number of Pairs : 4  
 Pair Identification : Blue, Blue/White; Orange, Orange/White  
 : Green, Green/White; Brown, Brown/White

#### 2 x 0.75mm<sup>2</sup> Power

Conductor Material : Bare Copper  
 Conductor Size : 0.75mm<sup>2</sup>, Class 5  
 Insulation Material : Polyvinyl Chloride (PVC)

### Overall Construction

Sheath Material : Polyethylene (PE)  
 Sheath Colour : Black

### Electrical Characteristics

#### Cat 5E U/UTP

Nominal Impedance : 100 ± 15 Ω (1-100MHz)  
 Max. Conductor Resistance @ 20°C : ≤ 9.50 Ω/100m  
 Max. Conductor Resistance Unbalanced : ≤ 2.5 %  
 Mutual Capacitance : ≤ 5.6 nF/100m  
 Capacitance Unbalanced to Earth : ≤ 330 pF/ 100m  
 Max. Delay Skew : ≤ 45 nS/ 100m  
 Voltage Rating : 30 V  
 Test Voltage : 2.5kV (AC)

#### Cat 5E U/UTP Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	MHz
Attenuation	1.9	3.5	5.5	7.0	7.9	10.0	14.4	18.6	≤ dB
Return Loss	19.1	21.0	21.0	20.0	19.5	18.5	16.0	14.0	≥ dB
NEXT	65.0	64.1	57.8	54.6	53.1	50.0	45.1	41.8	≥ dB
PS NEXT	62.0	61.8	55.5	52.2	50.7	47.5	42.7	39.3	≥ dB
ACRF	64.2	52.1	44.2	40.1	38.2	34.3	28.3	24.2	≥ dB
PSACRF	61.2	49.1	41.2	37.1	35.2	31.3	25.3	21.2	≥ dB



INDEPENDENTLY  
 VERIFIED

**Part No:** C5ER2D-F00  
**Description:** Cat 5E U/UTP + 2 x 0.75mm<sup>2</sup> power cable in a Black PE jacket laid up in a shotgun/figure of 8 formation and is suitable for external applications.



### 2 x 0.75mm<sup>2</sup> Power

Max. Conductor Resistance @ 20°C : ≤ 26 Ω/km  
 Voltage Rating : 300/500V

### **Physical Characteristics**

Overall Diameter : 5.8 x 12.2 ± 0.4mm  
 Bend Radius : Fixed 8 x OD Flexing 10 x OD  
 Temperature Rating : Fixed -15°C to 70°C Flexing -10°C to 70°C  
 Weight : 90 kg/km

### **Overall Construction**

RoHS3 Compliant : Yes  
 UV & Weather Resistant : ISO 4892-3  
 Cat 5E U/UTP Manufactured in Accordance to : TIA/EIA 568-C.2, ISO/IEC 11801  
 CE Compliant : LVD (2014/35/EU),  
 CPR Classification : Fca (EN50575:2014+A1:2016)