Cat 5E U/UTP + 2 x 0.75mm² Power PVC Shotgun
Technical Datasheet

Part No: C5ER2-E00
Description: Cat 5E U/UTP + 2 x 0.75mm² power cable in a Black PVC jacket laid up in a shotgun/figure of 8 formation.

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CONSTRUCTION PRODUCTS REGULATION
BS EN 50575
CLASS Eca
INDEPENDENTLY VERIFIED

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 0.75mm² Power

Conductor Material	: Bare Copper
Conductor Size	: 0.75mm², Class 5
Insulation Material	: Polyvinyl Chloride (PVC)

Overall Construction

Sheath Material	: Polyvinyl Chloride (PVC)
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

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2 x 0.75mm² 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

Flame Retardant	: BS EN 60332-1-2
RoHS3 Compliant	: Yes
Cat 5E U/UTP Manufactured in Accordance to	: TIA/EIA 568-C.2, ISO/IEC 11801
CE Compliant	: LVD (2014/35/EU), CPR (305/2011)
CPR Classification	: Eca (EN50575:2014+A1:2016)