

PART NO. 915104FU

Cat 5e F/UTP Aerial PE Ethernet Cable, 4 x 2 x 0.51 mm

Detailed Specifications & Technical Data

CROSS SECTION



1 Conductor
2 Insulation
3 Stranding
4 Wrapping
5 Screen
6 Messenger Wire
7 Outer Jacket

TECHNICAL DATA

Conductor Resistance Ω/km (20 °C)	: Max. 94
Insulation Resistance MΩ/km (20 °C)	: 5000
Mutual Capacitance nF/km	: Max. 56
Resistance Unbalance	: %2
Propagation Velocity	: %67-69
Characteristic Impedance Ω (1-100 MHz)	: 100 ±%5
Operating Voltage V DC	: 250
Test Voltage V (DC. 1 minute)	: 1200

CABLE CONSTRUCTION

Conductor	: Electrolytic solid copper conductor
Insulation	: Solid polyethylene insulation
Stranding	: Insulations are stranded into pairs and all pairs are stranded together
Wrapping	: Polyester tape
Screen	: Tinned copper earthing wire, Al/PET tape
Messenger Wire	: Galvanized steel wire
Outer Jacket	: UV resistant polyethylene outer jacket

STANDARDS

Manufacturing : ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801

MECHANICAL CHARACTERISTICS

Bending Radius	: 8.0xD mm
Temperature Range Operating	: -20°C ~ +60°C

CABLE TYPE DATA

CAMCOM Part No.	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
915104FU	4	0.51	5.5	17.2	52	100/500/1000

ELECTRICAL PROPERTIES

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far- end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
1	2	65,3	62,3	63,8	63,8	23
4	4.1	56,3	53,3	51,8	51,8	23
8	5.8	51,8	48,8	45,7	45,7	23
10	6.5	50,3	47,3	43,8	43,8	23
16	8.2	47,2	44,2	39,7	39,7	23
20	9.3	45,8	42,8	37,8	37,8	23
25	10.4	44,3	41,3	35,8	35,8	22
31.25	11.7	42,9	39,9	33,9	33,9	21
62.5	17	38,4	35,4	27,9	27,9	18
100	22	35,3	32,3	23,8	23,8	16

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Disclamer :- Datasheet is subject to modification without prior notication

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