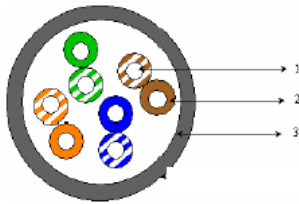


# TECHNICAL DATA SHEET

<b>Edition</b>	<b>1.0</b>
<b>Date</b>	<b>39/08</b>

## 100Ω U/UTP 4 pairs Cable-CAT 5e 100 MHz- PVC / LSZH Sheath

EIA / TIA 568-B.2 Category 5e



### CONSTRUCTION

#### 1 - CONDUCTOR

**Awg :** 24  
**Type:** Copper Clad Aluminum

#### 2 - INSULATION

**Type:** PE Solid  
**Colour Code:**  
Pair 1: blue / white-blue  
Pair 2: orange / white-orange  
Pair 3: green / white-green  
Pair 4: brown / white-brown

#### 3 - OUTER JACKET

**Type:** PVC / LSZH  
**Colour:** TBD  
**External Diameter:** 5.4 +/- 0.5 mm

### TECHNICAL PARAMETER

Characteristic Impedance(1~100 MHz)	100+/-15 Ω
Velocity of Propagation	66%
Mutual Capacity (nom.)	50 pF/m
Fire Behaviour :	IEC 332-1
Min. Bending Radius:	8 x Diameter
Operating Temperature	-20/+70°C

### RoHS GUIDELINE

We operate according to the following standards

Control Item	Standard	Testing Method	Testing Equipment
Cadmium content (Cd)	<0.01%	EN1122	ICP-AES
Lead content (Pb)	<0.1%	EPA3050B	ICP-AES
Mercury content (Hg)	<0.1%	EPA3052	ICP-AES
Chromium (VI) content	<0.1%	EPA3060(UN-VIS)	ICP-AES
Polybrominated Biphenyls(PBB)	Forbidden	GC/MS	
Polybrominated Diphenyl Ether (PBDE)	Forbidden	GC/MC	

### ELECTRICAL CHARACTERISTICS

Standard Value(100m)	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	25 MHz	31.25 MHz	62.5 MHz	100 MHz
<b>Insertion Loss</b>	2.04	4.1	6.5	8.2	9.3	10.4	11.7	17	22
<b>NEXT</b>	65.3	56.3	50.3	47.2	45.8	44.3	42.9	38.4	35.3
<b>PSNEXT</b>	62.3	53.3	47.3	44.2	42.0	41.3	39.9	35.4	32.3
<b>ELFEXT</b>	63.8	51.8	43.8	39.7	37.8	35.8	33.9	27.9	23.8
<b>PSELFEXT</b>	60.8	48.8	40.8	36.7	34.8	32.8	30.9	24.9	20.8
<b>Return Loss</b>	20.0	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1