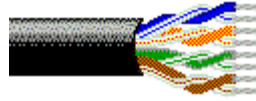




**BELDEN AUSTRALIA PTY LTD  
TECHNICAL DATA SHEET**



**Category 6 UTP Outdoor**

**Product Type:** BA250

**Description:**

4-Pair UTP, 24 AWG solid bare copper conductors, polyolefin insulation, flooded core, black UV resistant polyethylene jacket. Sequentially metre marked at 1-metre intervals.

**Applicable Specifications:**

ANSI/TIA/EIA-568-B.2 Category 6, ISO/IEC 11801 Category 6. This product and/or its manufacture is covered by US Patent No. 5424491.

**Applications:**

Proven support for 1Gbit ethernet / 1000Base-T / IEEE 802.3ab, ATM up to 155 Mbps, IEEE 802.3af Power Over Ethernet for VoIP, 100 Mbps Fast ethernet / 100Base-T / IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet / 10Base-T / IEEE 802.3, 4 & 16 Mbps Token Ring / IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz broadband video.

**Physical Characteristics:**

CONDUCTOR:	-----
[1] Number of Pairs:	4
[2] Number of Conductors:	8
[3] AWG:	24
[4] Stranding:	Solid
[5] Diameter:	0.5 mm (nominal)
[6] Material:	BC - Bare Copper
INSULATION:	-----
[1] Material:	PO - Polyolefin
[2] Diameter:	
JACKET:	-----
[1] Water-blocking:	Gel compound
[2] Material:	PE - Polyethylene
[3] Diameter:	6.88 mm (nominal)
[4] Colour:	Black
[5] Ripcord:	No
Operating Temperature:	-40 to +60 Deg C.
Storage Temperature:	-40 to +75 Deg C.
Installation Temperature:	-20 to +60 Deg C.
Weight:	54 kg/km (nominal)
Bend Radius:	70 mm (minimum)

**Pair Colour Code Chart:**

Number	Colour
1	White/Blue & Blue
2	White/Orange & Orange



- 3 White/Green & Green
- 4 White/Brown & Brown

**Electrical Characteristics:**

Mutual Capacitance @ 1kHz	46 pF/m (nominal)
Capacitance Unbalance	66 pf/100m (maximum)
Velocity of Propagation	71% (nominal)
Delay Skew	25 ns/100m (maximum)
Conductor DC Resistance @ 20 Deg C.	8.9 Ohms/100m (maximum)
DCR Unbalance @ 20 Deg C.	3% (maximum)
Operating Voltage	300 Vrms (maximum)

**Electrical Characteristics - Premise**

Freq. Imp	IL	NEXT	ACR	PSNEXT	PSACR	ELFEXT	PSELFEXT	RL	
(Ohms)	(dB/100m)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB)	
MHz	max.	min.	min.	min.	min.	min.	min.	min.	
1	100+/-15%	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	100+/-15%	3.8	65.3	61.5	63.3	59.5	55.8	52.8	23.0
8	100+/-15%	5.3	60.8	55.5	58.8	53.5	49.7	46.7	24.5
10	100+/-15%	6.0	59.3	53.3	57.3	51.3	47.8	44.8	25.0
16	100+/-15%	7.6	56.2	48.6	54.2	46.6	43.7	40.7	25.0
20	100+/-15%	8.5	54.8	46.3	52.8	44.3	41.8	38.8	25.0
25	100+/-15%	9.5	53.3	43.8	51.3	41.8	39.8	36.8	24.3
31.25	100+/-15%	10.7	51.9	41.2	49.9	39.2	37.9	34.9	23.6
62.5	100+/-15%	15.4	47.4	32.0	45.4	30.0	31.9	28.9	21.5
100	100+/-15%	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1
155	100+/-20%	25.2	41.4	16.2	39.4	14.2	24.0	21.0	18.8
200	100+/-20%	29.0	39.8	10.8	37.8	8.8	21.8	18.8	18.0
250	100+/-25%	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3
300	100+/-25%	36.4	37.1	0.7	35.1	-	18.3	15.3	16.8
350	100+/-25%	39.8	36.1	-	34.1	-	16.9	13.9	16.3
400	100+/-25%	43.0	35.3	-	33.3	-	-	-	15.9
500	100+/-25%	48.9	33.8	-	31.8	-	-	-	15.2
550	100+/-25%	51.8	33.2	-	31.2	-	-	-	14.9



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