

## Unshielded Twisted Pair, 4PR x 23AWG

### Standards applied

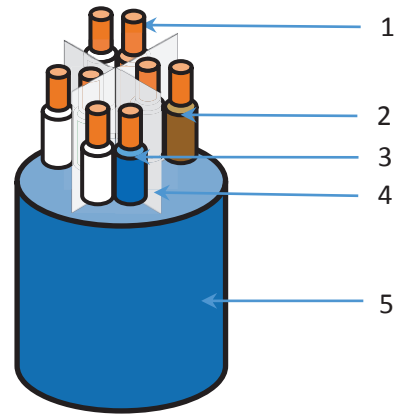
- TIA/EIA-568-B.2-1
- IEC 11801
- IEC 60332-3A

### Applications

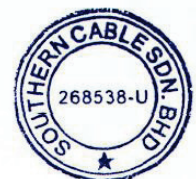
- 10baseT Ethernet
- 100base TX Fast Ethernet
- 1000base TX Gigabit Ethernet
- 155 Mbit ATM
- 622 Mbit ATM
- 1.2 Gbit ATM
- Future Class E applications

### Others

- Operating temperature range: -20°C to +75°C
- Ambient install temp. range: -20°C to 60°C
- Packaging in BOX (305m)
- Bending Radius: 10 x OD



Classification	Construction Detail
1. Conductor	Solid Bare Copper wire 23 AWG
2. Insulation	Polyethylene PE Compound TIA/EIA Colour Code Nom. Thickness: 0.23mm Insulated Diameter: 1.00mm ± 0.05mm
3. Twisted Pair	Lay Length, ≤ 38mm Twisted Pair Together to Form Main Core
4. Framework	PE Spline
5. Outer Sheath	Low Smoke Zero Halogen Compound <b>BLUE</b> Thickness: 0.50mm Overall OD: 6.2mm ± 0.5mm
6. Printing	SOUTHERN CABLE UTP 4PR 23AWG CU/PE/LSOH VERIFIED TO ANSI/TIA/EIA-568-B.2 CAT 6 XXXXM (XXXXM:LENGTH MARKING)



## Unshielded Twisted Pair, 4PR x 23AWG

### Characteristics

#### Construction

Type of cable	UTP
Outer Sheath	LSOH
Colour	BLUE
Screen	N/A

#### Dimensional

Diameter over insulation	1 mm
Number of pairs	4
Minimum outer diameter	5.7 mm
Maximum outer diameter	6.7 mm
Conductor cross section (AWG)	23

#### Electrical

Mutual capacitance at 20°C	≤56 nF/km
Max. DC resistance of the conductor at 20°C	≤93.8 Ω/km
Insulation Resistance at 20°C	≥5000MΩ/km

#### ELECTRICAL PERFORMANCE

All values are specified at 20C

Frequency, MHz	Attenuation, ≤dB/100m	RL, ≥dB/100m	NEXT, ≥dB/100m	PSNEXT (*), ≥dB/100m	ACR-F, ≥dB/100m	PSAR-F, ≥dB/100m
1	2.0	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
10	6.0	25.0	59.3	57.3	47.8	44.8
16	7.6	25.0	56.2	54.2	43.7	40.7
20	8.5	25.0	54.8	52.8	41.8	38.8
31.25	10.7	23.5	51.9	49.9	37.9	34.9
62.5	15.4	21.5	47.4	45.4	31.9	28.9
100	19.8	20.0	44.3	42.3	27.8	24.8
250	32.8	17.3	38.3	36.3	19.8	16.8

Tested on 100m sample in air

