

## Tech Data

REF.: 11321

## CABLE AND FIBRE OPTIC DATA CAT 6 S/UTP DOUBLE SHEATH

### Description



CAT 6 S/UTP 1000BaseT cable which consists of 4 twisted pairs with:

- Tinned copper braid overall shield
- Protected with double overall sheath made of PVC and PUR.

For Data transmission, mainly for horizontal wiring in places where a higher protection against environment interferences is required.

1000BaseT: supports frequencies up to 250 MHz and bit rates of 1000 Mbps.

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### Benefits

- Conditions of CAT.6 1000BaseT standard are overcome.
- Flexible cable.
- High quality and resistance against external aggressions thanks to the double overall sheath.

### Applications

For 1000BaseT Gigabit Ethernet: up to 250 MHz and bit rates of 1000 Mbps.  
But also:

Suitable for lower standards:

- 10 BASE-T
- 4/16 Mbps TOKEN RING
- 100 BASE-T
- 100 BASE-VG-AnyLAN
- 100 Mbps TP-PMD
- 55/155 Mbps ATM

Suitable for higher standards:

- 1.2 Gbps ATM
- 10 G BASE-T (lengths < 50 m)

Touring and outdoor events.

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### Physical Characteristics

Conductor	Insulation
Material: Solid Cu (copper) Section: 0.259 mm <sup>2</sup> AWG: 23 Composition: 1×0.57	Material: Polyolefin Colour: White/Orange, Light Green/Green, Light Blue/Blue, Light Brown/Brown.
Overall Shield	
Material: Tinned copper braid Coverage: 80 %	
1 <sup>st</sup> Sheath	2 <sup>nd</sup> Sheath
Material: PVC Diameter: 6.2 mm Colour: Black	Material: PUR Diameter: 8.0 mm Colour: Black

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### Mechanical Characteristics

Approx. weight	28 Kg/Km
Min. Bending Radius	10 x Ø
Temperature	-40/+80°C

### Electrical Characteristics

Max. dc resistance @20°C	<70 Ω/Km
Conductor resistance @1 KHz	>10.000 Ωx Km
Capacity between conductors	76 pF/m
Impedance @1-250MHz	100 Ω

Frequency MHz	Attenuation dB/100 m	NEXT dB	PS NEXT dB	ELFEXT (ACR-F) dB/100m	PSELFEXT (PSACR-F) dB/100m	ACR dB/100m	PS-ACR dB/100m	Return Loss dB
1	1.9	89.3	72.6	76.4	71.5	88.9	83.3	30.3
4	3.5	79.3	67.9	60.9	57.2	69.6	65.4	28.5
8	5.0	71.7	61.9	54.4	51.2	59.9	56.4	27.6
10	5.4	69.3	60.1	52.4	49.4	56.8	53.6	27.3
16	6.9	64.7	56.5	48.5	45.8	50.2	47.5	26.7
20	7.8	62.6	54.9	46.8	44.2	47.1	44.6	26.4
25	8.8	60.6	53.3	45.1	42.6	44.0	41.7	26.2
31.25	9.9	58.7	51.7	43.5	41.1	40.9	38.8	25.9
62.5	14.3	53.0	47.2	38.8	36.8	31.2	29.9	25.1
100	18.4	49.4	44.4	35.9	34.1	24.6	23.8	24.5
200	27.1	44.6	40.5	32.1	30.5	14.9	14.8	23.8
250	30.8	43.2	39.3	30.9	29.4	11.8	12.0	23.5

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### Environment

Contents of heavy materials

Directive 2002/95/CE

### Applicable Normative

ISO/IEC 11801

Structured cabling system

ANSI/TIA/EIA 568-B.2

Balanced Twisted pair cabling

Material of Conductor

UNE-EN 60228

Insulating material

UNE-EN 50290

### Tests

Assembly cable tests are made with *CableIQ Fluke* qualifier.



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For possible changes due to continuous product improvements; Pinanson S.L. reserves the right to change the showed data in this document without notice. The data presented here correspond to the time it was compiled.