

**PRODUCT DATASHEET: CAT 6 UTP 23AWG×4PAIRS SOLID DOUBLE SHEATH AL ARMORED CABLE**

**1. Physical Structure/Properties:**

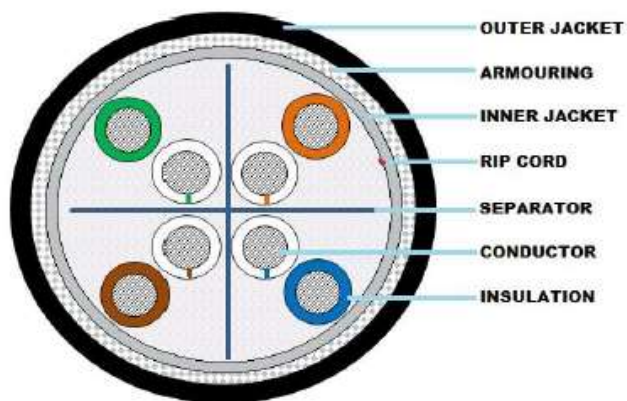


Fig. 1.1

Table 1.1 Construction details:

Parameter	Dimension
Conductor	23 AWG (0.550 ± 0.015 mm)
Material	Solid Bare Electrolytic Grade Copper
Insulation:	HDPE
Cross-Filler	HDPE
Ripcord	Yes
Inner Jacket	PVC (Grey/Natural) OD:6.4 ± 0.50 mm
Armour	Aluminum
Outer Jacket:	PE (Black); Thickness: 0.8 (Nominal) OD:9.8 ± 0.50 mm

**2) Temperature Rating:**

Parameter	Dimension
Installation Temperature	0 to +50 deg C
Storage Temperature	-20 to +75 deg C
Operating Temperature	-20 to +70 deg C

**3) Electrical characteristics:**

Table 3.1 Electrical characteristics

Parameter	Dimension
DC resistance	93.5Ω/1000 mtr @20°c Max
DC resistance Unbalance	5% Max
Mutual Capacitance	5.6 nF/100 mtr Max
NVP	69%
Impedance	100±15Ω
Worst Cable Skew	45ns/100m

- For additional information please contact your sales representative
- CISFIBER Infra Solutions Pvt. Ltd. reserves the right to make changes in this datasheet at any time without notice

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Table 3.2 Transmission Characteristics meets or exceed ANSI/TIA-568-C.2

Freq. MHz	ATT Max. dB	NEXT Min. dB	PSNEXT Min. dB	ACRF Min. dB	PSACRF Min. dB	RL Min. dB
1	2.1	65.0	62.0	63.3	60.3	19
4	4.0	63.0	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54.0	43.3	40.3	19
16	8.0	53.2	50.6	39.2	36.2	18
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

Note: High Frequency characteristics are guaranteed up to 90m Channel.

**4. Packaging and Cable Printing details:**

CISNET CAT6 4PR 23AWG OUTDOOR DOUBLE JACKETED AL ARM TIA-568-C.2 CAT 6 <cable PN> RoHS COMPLIANT <month/year> <batch number> XXX m

CISNET Cable PN	Description	Packaging Length
CA-00305-001	CISNET CAT6 UTP 23 AWG 4P Double Jacketed Armored Outdoor Cable	305m

**5. Standards**

- Compliant to TIA/EIA-568C.2 standards
- RoHs

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