



1. **Conductor** : Solid bare copper AWG23
2. **Insulation** : PE , colour code according to EIA/TIA 568
3. **Cross filler**: PE
4. **Outer jacket** : LSZH –colour purple RAL 4001

Description

This cable is suitable for indoor use, in static applications.

This cable is used for horizontal network and voice application in a structured cabling system, including IEEE 802.3 an

This cable can transmit :

- 10 GIGABIT ETHERNET (Up to 100 m)
- 2.4/1.2Gb/s ATM
- Digital video
- Broadband & baseband analogue video

International standards

CABLE	IEC 61156-5 Cat6a
SYSTEM	ISO/IEC 11801 CLASS Ea

Electrical properties

Max. electrical resistance of conductors : 95 Ω / Km
Mutual capacitance (nom.) : 50 pF / m
Characteristic impedance from 1 to 500MHz : 100 Ω
Delay skew \leq 45 ns/100m from 4 to 500MHz
Velocity of propagation :66%

Physical characteristics

Installation temperature: 0° C / + 50°C
Operating temperature : - 10° C / + 50°C
Minimum bending radius: 76 mm for static use 240mm for dynamic use / installation
Flame retardant acc. to IEC 60332-1

REF : U5104SH

100 Ω U/UTP 4 pairs cable Category 6a -500MHz LSZH –INT

Transmission performances

MESURES (MHZ)	ATTENUATION max (dB/100m)	NEXT min (dB)	PS NEXT min (dB)	ELFLEX min (dB)	PSELFEXT min (dB)	RETURN LOSS min (dB)
4	3.8	66.3	63.3	55.9	52.9	23.0
10	5.93	60.3	57.3	48	45	25.0
16	7.49	57.2	54.2	43.9	40.9	25.0
25	9.38	54.3	51.3	40	37	24.3
31.25	10.5	52.9	49.9	37.9	35.1	23.6
100	19.14	45.3	42.3	28	25	20.1
200	27.58	40.8	37.8	22	19	18
250	31.07	39.3	36.3	29.3	26.3	17.3
300	34.27	38.1	35.1	18.4	15.4	17.3
400	40.05	36.3	33.3	16	13	17.3
500	45.26	34.8	31.8	14	11	17.3

Standard values at 20°C according to IEC 61156-5 / Cat6A

Ordering information

Reference	U5104SH5	U5104SH10	U5104SH BRIB
Pairs number	4	4	4
AWG	23	23	23
Outer diameter	7.8 x 9.1 mm	7.8 x 9.1 mm	7.8 x 9.1 mm
Packaging	500 m drums	1000 m drums	305 m reel in box