

# OPENETICS

## Rigid Cat. 6A U/UTP Cable for Outdoor Use, PE Fca

RANGE

S.C.E. Cat. 6A



### Description

Copper cable consisting of 4 unshielded twisted pairs. Designed for voice and data transmission in local area networks (LANs), primarily for horizontal cabling. Supports frequencies up to 500 MHz and speeds up to 10 Gbps.

### Applications

Supports all current LAN applications, including, among others:

- 10 Base-T (IEEE 802.3)
- 100 Base-VG-AnyLAN
- 100 Base-T (IEEE 802.3)
- 10 G Base-T
- 1000 Base-T (Gigabit Ethernet)
- 55/155 Mbps ATM
- 4/16 Mbps Token Ring (IEEE 802.5)

### Regulations

- ANSI/TIA/EIA 568B.2
- ISO/IEC 11801
- EN 50173

### Features and Benefits

- Weather-resistant polyethylene cover.
- It exceeds the Cat. 6A requirements set forth in the standard.
- Low delay propagation.
- High ACR values and minimal speed error.
- Quick identification and easy installation.
- High-quality cable design.
- Available in 500-meter reels and 305-meter boxes.

OPENETICS INTERNATIONAL S.L.U.

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Technical Specifications

Date:

01-00-0-1-ES-V1.0 08/04/2025

Code No.:

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### Physical and Mechanical Specifications

■ <b>Composed of:</b>	8 insulated conductors, in 4 twisted pairs
■ <b>Driver:</b>	rigid annealed copper
■ <b>Diameter:</b>	23 AWG
■ <b>Insulation:</b>	HDPE
■ <b>Cover:</b>	LDPE, black, $\varnothing 6.7 \pm 0.5$ mm
■ <b>Color code:</b>	orange-white, orange, green-white, green, blue-white, blue, brown-white, brown.
■ <b>Maximum tensile strength:</b>	10 kg
■ <b>Operating temperature:</b>	-30°C to 70°C

### Electrical Specifications

■ <b>Characteristic impedance:</b>	1.0 – 250 MHz $100 \pm 15 \Omega$ 250 – 500 MHz $100 \pm 22 \Omega$
■ <b>Conductor resistance:</b>	Max. 93.8 $\Omega$ /km at 20°C
■ <b>Resistance imbalance:</b>	Max. 5%
■ <b>Unbalance capacity:</b>	Max. 45 nF/km at 1 kHz
■ <b>Nominal propagation speed:</b>	68%

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### Electrical Characteristics

Frequency	RL	ATT	NEXT	DELAY	Frequency	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	MHz	≥ dB	≥ dB	≥ dB
1	20.0	2.1	74.3	570.0	1	72.3	67.8	64.8
4.0	23.0	3.8	65.3	552.0	4	63.3	55.8	52.8
8.0	24.5	5.3	60.8	546.7	8	58.8	49.7	46.7
10.0	25.0	5.9	59.3	545.4	10	57.3	47.8	44.8
16.0	25.0	7.5	56.2	543.0	16	54.2	43.7	40.7
20.0	25.0	8.4	54.8	542.1	20	52.8	41.8	38.8
25.0	24.3	9.4	53.3	541.2	25	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	31.25	49.9	37.9	34.9
62.5	21.5	15.0	47.4	538.6	62.5	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	100	42.3	27.8	24.8
200	18.0	27.6	39.8	536.5	200	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	250	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	300	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	500	31.8	13.8	10.8

\* For informational purposes only

### Business Information

Ref.	Cable Category	Cable Type	Number of pairs	Roof Type	Packaging	Length
0266F2	Cat. 6A Cable	Outdoor Rigid U/UTP	4	LDPE FCA	coils	500 m.
268F2	Cat. 6A Cable	Outdoor Rigid U/UTP	4	LDPE FCA	boxes	305 m

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