

26AWG SF/UTP CAT6A

High Flex Industrial Patch Cable

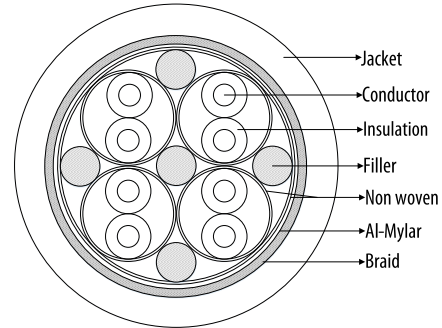
PVC Outer Sheath



PRODUCT DATA SHEET

This Industrial Ethernet cable CAT6A is suitable for highly flexible use in drag chain, robot motion control. PVC Sheath with UL certified (CM). It offers protection against oils, acid, alkaline, and UV resistance.

Design Number 10594
Part Number 32163727
Customer Number N/A



CONSTRUCTION

Conductor: Finely stranded bare copper
Conductor Size: 26AWG(30/0.08mm)
Insulation Material: Polyethylene
Color Code: 1. White/blue & Blue 2. White/orange & Orange
 3. White/green & Green 4. White/brown & Brown
Insulation Diameter: 0.98mm(Nom.)
Individual Binder: Non woven tape
Filler: High strength member
Overall Binder: Non woven tape
Overall Shield: Al-Mylar
Braid: Tinned Copper, 38AWG, min coverage 80%
Jacket Material: Polyvinyl Chloride
Jacket Avg. Thickness: 0.65mm(Nom.)
Overall Diameter: 6.8mm(Nom.)
Jacket Color: Green, variety of colors available

Print Legend:

ASCENT E478021 ** (UL) CM 4 PAIR 26 AWG CAT6A/500MHz High Flex Patch Cable xxxxxm
 “**” = Factory ID

PHYSICAL CHARACTERISTICS

Operating Temperature (°C): -40°C to +80°C(Fixed installation)
 -20°C to +80°C(Flexing)

Flame Rating: UL CM

Attributes: Oil Resistance, UV Resistance

Min. Bending Radius: Fixed 5x OD, Flexing 7.5x OD

Reference Standard: UL 444, ANSI/TIA-568.2-D, ISO/IEC 11801

Approvals: UL



Revision History		
00	2022/03/29	Initial Release
01	2022/04/26	Part Number added
Created L. Jian Approved A. Huang		

MECHANICAL CHARACTERISTICS

Application of Drag Chain: after 5 million bending cycles, the cable can comply with Fluke Channel test per TIA 568. 2-D

Min. Bending Radius: 7.5x OD

Max. Speed: 2m/s

Accelerated Speed: 10m/s²

Distance: 1-10m

ELECTRICAL CHARACTERISTICS

Conductor Resistance@20°C: 145 Ω/km Max

Resistance Unbalance@20°C: 5% Max

Insulation Resistance@20°C: 5000 MΩ.km Min

Characteristic Impedance: 100±15 Ω

Delay Skew: 45 ns/100m

Transmission Performance

Freq. MHz	ATT	RL	NEXT	PSNEXT	ELFEXT	PSELFEXT
	Max. dB	Min. dB	Min. dB	Min. dB	Min. dB	Min. dB
1	2.3	19.0	65.0	62.0	63.3	60.3
4	4.2	19.0	63.0	60.5	51.2	48.2
8	5.8	19.0	58.2	55.6	45.2	42.2
10	6.5	19.0	56.6	54.0	43.3	40.3
16	8.2	18.0	53.2	50.6	39.2	36.2
20	9.2	17.5	51.6	49.0	37.2	34.2
25	10.2	17.0	50.0	47.3	35.3	32.3
31.25	11.5	16.5	48.4	45.7	33.4	30.4
62.5	16.4	14.0	43.4	40.6	27.3	24.3
100	20.9	12.0	39.9	37.1	23.3	20.3
200	30.1	9.0	34.8	31.9	17.2	14.2
250	33.9	8.0	33.1	30.2	15.3	12.3
300	37.4	7.2	31.7	28.8	13.7	10.7
500	49.3	6.0	26.1	23.2	9.3	6.3

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