

26AWG SF/UTP CAT6A

High Flex Industrial Ethernet Cable

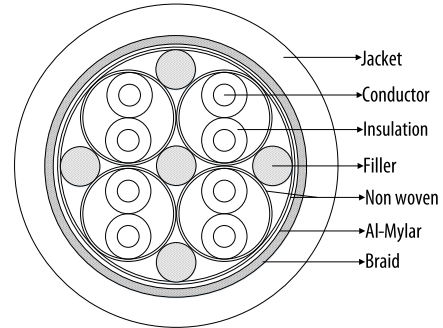
PUR Outer Sheath, UL 20549 certificated



PRODUCT DATA SHEET

This Industrial Ethernet cable CAT6A is suitable for highly flexible use in drag chain, robot motion control. PUR outer sheath offers excellent protection against oils, acid, alkaline, and UV resistance.

Design Number 10605
Part Number 32163728
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: Polyurethane (Halogen Free)
Jacket Avg. Thickness: 0.65mm(Nom.)
Overall Diameter: 6.8mm(Nom.)
Jacket Color: Green, variety of colors available

Print Legend:

ASCENT E477982 ** AWM 20549 80°C 4 PAIR 26 AWG PUR HALOGEN
 FREE CAT6A/500MHz HIGH FLEX INDUSTRIAL ETHERNET CE xxxxxM

Note: ** is Factory code

PHYSICAL CHARACTERISTICS

Operating Temperature (°C): -40°C to +80°C(Fixed installation)
 -20°C to +80°C(Flexing)
Flame Retardant and Self-extinguishing: IEC 60332-1-2, EN 60332-1-2
Attributes: Oil Resistance, UV Resistance
Min. Bending Radius: Fixed 5x OD, Flexing 7.5x OD
Reference Standard: ANSI/TIA-568.2-D, ISO/IEC 11801



MECHANICAL CHARACTERISTICS

Application of Drag Chain: after 10 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.	ATT	RL	NEXT	PSNEXT	ELFEXT	PSELFEXT
MHz	Max.	Min.	Min.	Min.	Min.	Min.
	dB	dB	dB	dB	dB	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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Revision History		
00	2022/03/29	Initial Release
01	2022/04/26	Part Number added
02	2023/05/23	Flame Test and Bending Cycles updated
03	2023/07/13	UL certification is added
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