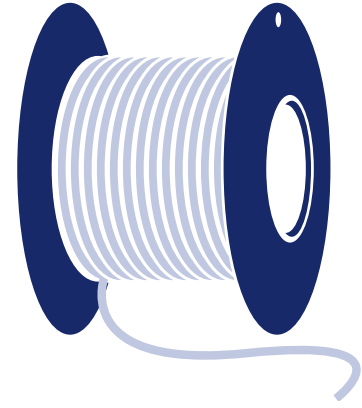


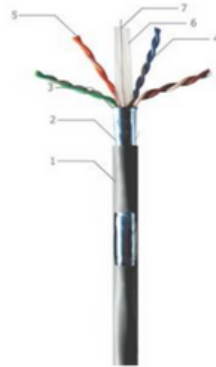
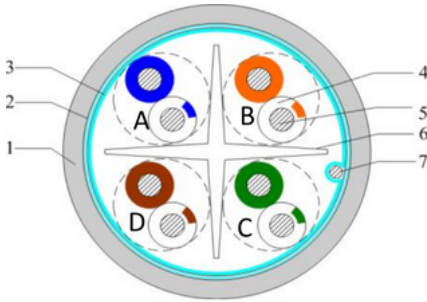
Product Specifications

Product: 4PR 24AWG F/UTP CAT6 OUTDOOR CABLE / LN-A0424AFC6-ENS-006

Description	Application
- Rated temperature: 75°C - Flame rate: N/A - UV-resistant (720hrs UL 1581)	100Base-TX 1000Base-T 155.52Mbps ATM 1.2G ATM - IEEE 802.3bt Type 1, Type2, Type3, Type4 (TIA/TSB-184-A)



Product figure



- Outer jacket
- AL/PET
- Polyester tape
- Insulation
- Conductor
- Filler
- Drain wire

Transmission characteristics (Test length: 100m) IEC 61156-5 & ISO/IEC 11801

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ACR-F	PS ACR-F	PD	TCL
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)	
4	115.2	86.8	3.8	23.0	66.3	63.3	56.0	53.0	552.0	40.0
8	112.6	88.8	5.4	24.5	61.8	58.8	49.9	46.9	546.7	40.0
10	111.9	89.4	6.0	25.0	60.3	57.3	48.0	45.0	545.4	40.0
16	111.9	89.4	7.6	25.0	57.2	54.2	43.9	40.9	543.0	38.0
20	111.9	89.4	8.5	25.0	55.8	52.8	42.0	39.0	542.0	37.0
25	112.9	88.5	9.6	24.3	54.3	51.3	40.0	37.0	541.2	36.0
31.25	114.1	87.7	10.7	23.6	52.9	49.9	38.1	35.1	540.4	35.1
62.5	118.3	84.5	15.5	21.5	48.4	45.4	32.1	29.1	538.6	32.0
100	121.9	82.0	19.9	20.1	45.3	42.3	28.0	25.0	537.6	30.0
150	125.7	79.6	24.8	18.9	42.7	39.7	24.5	21.5	536.9	28.2
200	128.8	77.6	29.1	18.0	40.8	37.8	22.0	19.0	536.5	27.0
250	131.5	76.0	33.0	17.3	39.3	36.3	20.0	17.0	536.3	26.0



Physical characteristics

Structure - Construction: F/UTP - Number of pairs: 4 Pairs	Cabling - Twisting lay length: $\leq 30\text{mm}$ - Cabling lay length: $\leq 200\text{mm}$
Conductor - Material: Solid Bare copper - AWG: 24 AWG - Dimension: $0.525\pm 0.020\text{mm}$	Filler Filler: PE
Insulation - Insulation material: HDPE - Insulation dimension: $1.08\pm 0.05\text{ mm}$ - Number colour (Stripe marking): A.White/Blue (Stripe) & Blue B.White/Orange (Stripe) & Orange C.White/Green (Stripe) & Green D.White/Brown (Stripe) & Brown	Binder Binder material: Polyester tape
Mechanical characteristics - Operating temperature range $-20\text{ }^{\circ}\text{C} \sim +75\text{ }^{\circ}\text{C}$ - Installation temperature range $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$ - Recommended pulling tension (max.) 110 N TIA-568.2-D - Bending radius (Installation) (min.) 8 x O.D. - Outer jacket tensile strength $\geq 9.7\text{ Mpa}$ UL 444 - Outer jacket elongation $\geq 350\%$ UL 444 - Outer jacket aging condition: $100\text{ }^{\circ}\text{C} \times 48\text{ hrs}$ UL 444 - Tensile strength retention after aging: $\geq 75\%$ of Unaging UL 444 - Elongation retention after aging: $\geq 75\%$ of Unaging UL 444 - Cold bend: No crack (@ $-40^{\circ}\text{C} \times 4\text{hrs}$) IEC 61156-5 - Transfer impedance: Grade 2 IEC 61156-5 - Coupling attenuation: Type II IEC 61156-5 - UV Resistance(UL1581-1200,720H): Tensile strength retention $\geq 80\%$Before aging Elongation retention $\geq 80\%$Beore aging	Shield - Individual shield & material: N/A - Primary overall shield & material: AL/PET - Shield coverage: 100% - Drain wire Nom: 1/26AWG solid tinned copper Outer jacket - Outer jacket material: LDPE (UV Resistance) - Outer jacket thickness: (min) 0.60 mm - Overall nominal dimension: $7.5\pm 0.4\text{ mm}$ - Rip cord: N/A - Outer jacket colour: BLACK

Electrical characteristics

- Insulation resistance (min.): $5000\text{ M}\Omega.\text{Km}$ IEC 61156-5 - Operating voltage (max.): 300V UL444 - Mutual capacitance (nom.): $\leq 5.6\text{ nF}/100\text{m}$ @1kHz IEC 61156-5 - Capacitance unbalance: pair-to-ground: $\leq 160\text{ pF}/100\text{m}$ @1kHz IEC 61156-5 - Delay skew (max.): 45 ns/100m IEC 61156-5 - Conductor DC resistance (max.): $9.5\Omega/100\text{m}$ @20 $^{\circ}\text{C}$ IEC 61156-5 - Conductor DC resistance unbalance: $\leq 2\%$ @20 $^{\circ}\text{C}$ within a pair IEC 61156-5 $\leq 5\%$ @20 $^{\circ}\text{C}$ between pairs IEC 61156-5 - Nominal velocity of propagation: 65%
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Date	Version	change Description
Jan 6, 2026	V.0	First release

