

PRODUCT SPECIFICATION

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:
 ANSI/TIA-568-C.2 Cat.5e
 ISO/IEC 2nd Edition 11801 Class D
 CENELEC EN 50173-1
 IEC 61156-5, CENELEC 2nd Edition EN 50288-2-1 for horizontal cable
 Flame Retardancy is Verified According to IEC 60332-1-2.
 We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC.



CONSTRUCTION & CHARACTERISTICS:

Conductor	Material / Size	Bare Copper / 24AWG
Insulation	Material	Foam-Skin PE
	Thickness	Nominal: 0.269 mm
	Diameter	Nominal: 1.055 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.918 Kgf/mm ²
Screen	Material	Aluminum-Mylar tape and tinned copper drain wire
Jacket	Material	LDPE
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 6.1 mm
	Color	Black
	Unaged Elongation	Min. 350%
	Unaged Tensile Strength	Min. 0.989 Kgf/mm ²
Marking	CAT.5E FTP (OUTDOOR USE) 24AWGX4P INSTALLATION CONFORM TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-1 & IEC 60332-1-2 [XXXXXXXXM]	
	or as customer request.	

APPROVALS:

- UL/cUL Listed
- 3P/ETL Certified ANS/TIA/EIA-568-B.2 Category 5e testing performance requirements

APPLICATIONS:

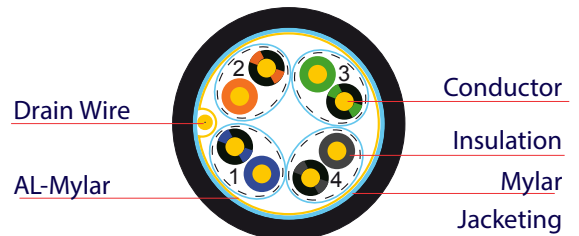
- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
- 550MHz Broadband Video
- Voice, T1, ISDN

ELECTRICAL PERFORMANCES:

NVP Rating		Around 75%		
Spark Test		750 ± 250 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max. 14.07 Ω/100m at 20°C		
Resistance Unbalance		Max. 5%		
Capacitance Unbalance		Max. 330 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	64kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M), Max	Next (dB), Min	Power Sum (dB), Min
	1MHz	3.1*	66.0*	64.0*
	4 MHz	5.8*	65.3*	63.3*
	10 MHz	9.0*	59.3*	57.3*
	16 MHz	11.4*	56.2*	54.2*
	20 MHz	12.8*	54.8*	52.8*
	31.25 MHz	16.1*	51.9*	49.9*
	62.5 MHz	23.2*	47.4*	45.4*
	100 MHz	29.9*	44.3*	42.3*
	150 MHz	38.0*	41.4*	39.4*
	200 MHz	43.7*	39.8*	37.8*
	250 MHz	49.5*	38.3*	36.3*

The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:
 $NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \log_{10}(f \text{ MHz}/0.772)$

CONFIGURATION:



Although every precaution has been taken to ensure the accuracy of the product specifications at the time of publication, we cannot be responsible for the errors, omissions, or changes due to obsolescence. All data contained herein is subject to change without notice.