

FEATURES:

Compliant with Cat.6A requirements as :

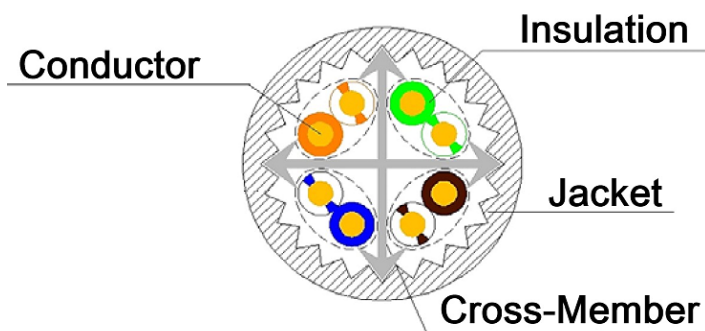
- ANSI/TIA 568.2-D:2018
- ISO/IEC 11801-1 Class Ea:2017
- CENELEC EN 50288-11-1:2013
- IEC 61156-5:2020
- EN50173-1:2018

Compliant with safety standard as:

- IEC 60332-1-2:2014
- IEC 61034-1 / 61034-2:2013
- IEC 60754-2:2011(Edition 2.0)
- RoHS compliant (EU Directive 2011/65/EC)

CHARACTERISTICS:

Conductor	Material	Bare Copper
	Construction	23 AWG
Insulation	Material	PE
	Diameter	1.02± 0.1 mm
Cross-Member	Material	PE
Sheath	Material	PVC / LSOH
	Diameter	8.8 ± 0.3 mm
Operation Temperature		-20°C~+60°C
Installation Temperature		0°C~+50°C
Storage Temperature		-30°C~+60°C



orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown

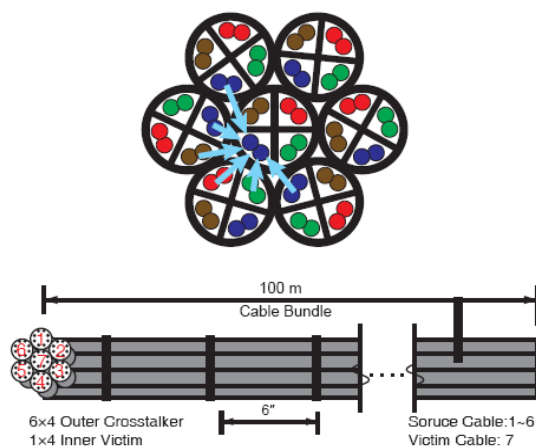
APPLICATIONS:

- 10G BASE-T Ethernet
- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice

ELECTRICAL PERFORMANCE:

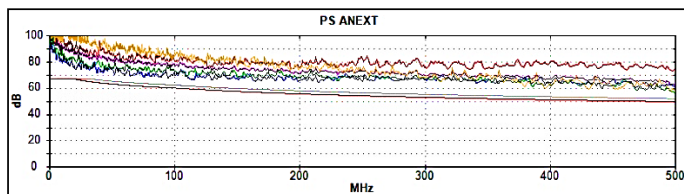
Dielectric Strength of Insulation		2500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ/m		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	1~100MHz	100Ω ± 15%		
	100~500MHz	100Ω ± 22%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max. Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	4 MHz	3.74*	66.3*	63.3*
	10 MHz	5.87*	60.3*	57.3*
	100 MHz	19.11*	45.3*	42.3*
	200 MHz	27.56*	40.8*	37.8*
	250 MHz	31.05*	39.3*	36.3*
	300 MHz	34.25*	38.1*	35.1*
	400 MHz	40.04*	36.3*	33.3*
	500 MHz	45.25*	34.8*	31.8*
	The asterisked (*) value are for information only.			

10G UTP SYSTEM 6 ROUND 1 BUNDLED CHANNEL TEST:



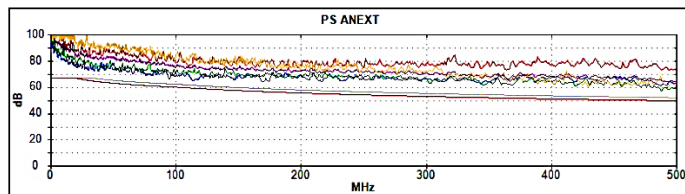
PS ANEXT (End 1)

Pair	Frequency	Value	Limit	Margin	Status
12	431.0 MHz	58.99 dB	50.48 dB	8.51 dB	PASS
36	500.0 MHz	55.37 dB	49.52 dB	5.85 dB	PASS
45	115.5 MHz	66.25 dB	59.06 dB	7.18 dB	PASS
78	All test data above limit caps				
Average	500.0 MHz	62.21 dB	51.77 dB	10.45 dB	PASS



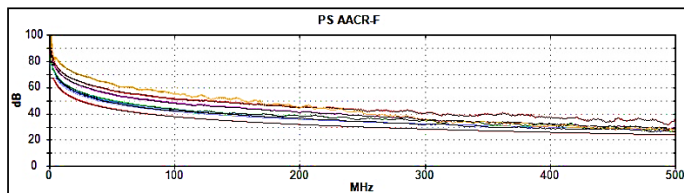
PS ANEXT (End 2)

Pair	Frequency	Value	Limit	Margin	Status
12	500.0 MHz	59.15 dB	49.52 dB	9.63 dB	PASS
36	488.0 MHz	57.06 dB	49.67 dB	7.39 dB	PASS
45	114.0 MHz	64.88 dB	59.15 dB	5.73 dB	PASS
78	All test data above limit caps				
Average	500.0 MHz	63.44 dB	51.77 dB	11.67 dB	PASS



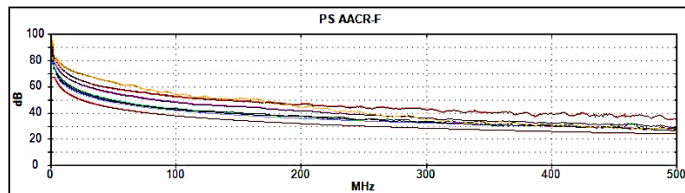
PS AACR-F (End 1)

Pair	Frequency	Value	Limit	Margin	Status
12	All test data above limit caps				
36	113.5 MHz	41.84 dB	36.60 dB	5.24 dB	PASS
45	334.0 MHz	30.02 dB	27.23 dB	2.79 dB	PASS
78	All test data above limit caps				
Average	211.5 MHz	40.52 dB	35.19 dB	5.32 dB	PASS



PS AACR-F (End 2)

Pair	Frequency	Value	Limit	Margin	Status
12	All test data above limit caps				
36	313.0 MHz	31.61 dB	27.79 dB	3.82 dB	PASS
45	316.0 MHz	31.71 dB	27.71 dB	4.00 dB	PASS
78	All test data above limit caps				
Average	201.0 MHz	41.11 dB	35.64 dB	5.47 dB	PASS



ORDERING INFORMATION:

Part NO.	20994x225
Description	Cat.6A U/UTP Installation cable, 6 round 1 type, 500m/reel, grey
x: jacket material	1: PVC 2: LSOH

Premium Line Systems GmbH reserves the right to change specifications without prior notice.

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