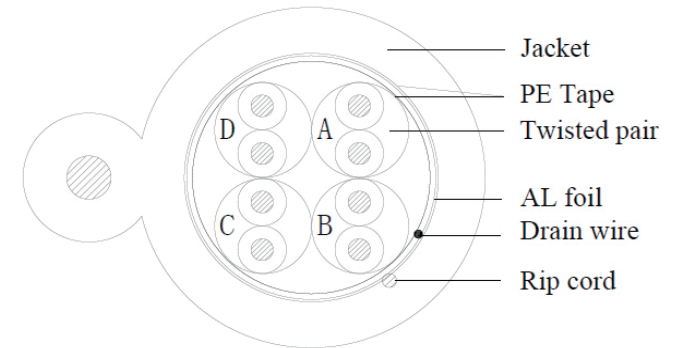


Construction & Material :

Item	Unit	Specification
Product		CAT.5E F/UTP 4P CMR Rated
Conductor	Size	AWG 24AWG(1/0.515+/-0.005mm)
	Number	pairs 4
	Material	Solid Annealed Bare Copper
Insulation	Material	HDPE
	Avg.thickness	mm 0.220
	Diameter	mm 0.93±0.01
	Color	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Cabling	Construction	See Cross Section
Shielding	Wrap	PET tape
	Construction	pcs/mm TC 1/0.40+/-0.005
	Material	AL/Foil
Messenger	Galvanize Steel	1/1.29+/-0.01
Jacket	Material	LLDPE
	Avg.thickness	mm 0.72x0.60
	Overall Diameter	mm (6.50+2.6)+/-0.20mm
	Rip Cord	Nylon
	Color	Black
Marking	STRUCTURED CABLE PRODUCTS --- CAT5E-AER--- CAT5E SHIELDED ENHANCED 350 MHZ 4PR 24AWG F/UTP LLDPE JKT OUTDOOR/AERIAL WITH MESSENGER VERIFIED TO ANSI/TIA-568.2-D -- CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***FEET	
Nominal Weight	17 lbs.	



Rev.	Description	Date
A		04-2023



Cross Section

Description:

CAT5E AERIAL - CAT5E 350 MHZ 24 AWG SOL BC
4PR F/UTP (SHIELDED) w/MESSENGER,
LLDPE JKT- BLACK- 1000 FT SPOOL

Regulatory:

ANSI/TIA 568.2-D and ISO/IEC 11801
EU RoHS 2011/65 EU Compliant

Application:

Networking Lan Cable

Item Number:	12X6-522NH	
Title:	Shielded, Cat5e Black Solid Copper Ethernet Cable, F/UTP, POE Compliant, Spool, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	123	

No.	Specifications
-----	----------------

Rev.	Description	Date
A		04-2023

Performance-1

ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	2	2	65.3	80	62.3	79	63.3	78
4	4.1	3.7	56.3	67.1	53.3	65.7	52.2	63.4
8	5.8	5.2	51.8	65.5	48.8	62.5	46	60.3
10	6.5	5.9	50.3	62.1	47.3	59.7	43.8	56.2
16	8.2	7.4	47.2	57.9	44.2	56.3	39	50.5
20	9.3	8.2	45.8	57.6	42.8	54.7	36.5	49.4
25	10.4	9.2	44.3	54.3	41.3	51.7	33.9	45.1
31.25	11.7	10.3	42.9	54.7	39.9	52	31.2	44.4
62.5	17	14.6	38.4	49.4	35.4	46.7	21.4	34.8
100	22	18.6	35.3	42.5	32.3	41.7	23.3	23.9
155	28.1	22.9	32.4	48.8	29.4	45.7	4.3	25.9
200	32.4	25.7	30.8	42.3	27.8	38.9	---	---
300	41	31.6	28.1	39.7	25.1	35.8	---	---
350	44.9	34.3	27.1	44	24.1	34.2	---	---

Performance-2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	20	24.1	63.8	76.2	60.8	73.2	60.3	77
4	23	25.2	51.8	61.2	48.8	59.5	49.2	62
8	24.5	25.7	45.7	52.2	42.7	51.5	43	57.3
10	25	27.1	43.8	50.8	40.8	50.5	40.8	53.8
16	25	26.2	39.7	47.7	36.7	45.5	36	48.9
20	25	26.1	37.8	47.9	34.8	46.4	33.5	46.5
25	24.3	26.4	35.8	48.7	32.8	45.9	30.9	42.5
31.25	23.6	24.6	33.9	43.9	30.9	41.1	28.2	41.7
62.5	21.5	24	27.8	34.4	24.8	34	18.4	32.1
100	20.1	22.8	23.8	29	20.8	27.9	10.3	23.1
155	18.8	26.5	20	33.6	17	26.3	1.3	22.8
200	18	28.1	1.7	27.8	14.7	23.2	---	---
300	16.8	26.3	14.2	35.7	11.2	23.9	---	---
350	16.3	28.5	12.9	31.6	9.9	21.3	---	---

Electrical & Physical Characteristics:

Operating Temperature Range	- 20°C + 75°C		
Voltage Rating	300V		
Conductor Resistance	Max 86.5 ohm/km at 20°C		
Dielectric Strength	Min AC1.5KV		
Spark Test	5.0KV		
Insulation	Unaged	Tensile Strenght	16.5Mpa
		Elongation	500%
	Aged	Tensile Strenght	14.2Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strenght	10.8 Mpa
		Elongation	100%
	Aged	Tensile Strenght	8.5Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
DC Resisitance Unbalance	Max 5%		
Pair-to-Ground Capacitance Unbalance	Max 3300pF/km		
Characteristic Impedance	100+/-150HM		
Nominal Velocity of Propagation(%)	67~69		
Propagation Delay	Max 536ns/100m		
Delay Skew	Max 40ns/100m		



Item Number:	12X6-522NH	
Title:	Shielded, Cat5e Black Solid Copper Ethernet Cable, F/UTP, POE Compliant, Spool, 1000 foot	
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ID:	123	