

SPECIFICATION SHEET

PART NUMBER : EYNLS5E41AW-PB-1000, Blue
EYNLS5E42AW-PB-1000, Green
EYNLS5E43AW-PB-1000, Red
EYNLS5E44AW-PB-1000, Yellow
EYNLS5E48AW-PB-1000, Purple

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: Category 5E Bulk Cable,
350 MHz, Un-Shielded, LSZH, 24 AWG,
Solid, 4 Pair, U/UTP, LSZH

RECOGNIZED:

BLACK BOX NETWORK SERVICES

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SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	
SIZE	U/UTP 24AWG×4P	ESTABLISHED DATE : November/25/2015
STANDARD : UL444 & ISO/IEC 11801 CLASS D & ANSI/TIA-568-C.2 CAT 5E EN71-3 & EPA3050B & 2002/95/EC (RoHS) . APPLICATION : LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.50±0.02 mm 0.01969±0.00078 inch
INSULATION	AVG. THICK.	0.19 mm 0.0075inch
	MIN. THICK.	0.18 mm 0.0071inch
	DIAMETER	0.88 ± 0.05 mm 0.03465±0.00196 inch
	MATERIAL	HDPE
	COLOR CODES	1.Blue × White/Blue (Stripe) 2.Orange × White/Orange (Stripe) 3.Green × White/Green (Stripe) 4.Brown × White/Brown (Stripe)
CABLING	PAIR STRANDED	2 CORES STRANDED
	FILLER (SPLINE)	No
	ASSEMBLY STRANDED	4 PAIR STRANDED
BINDER	BINDER MATERIAL	No
SHIELD	OVERALL SHIELD & MATERIAL	No
	DRAIN WIRE	No
JACKETED	AVG. THICK.	0.50 mm 0.01968inch
	MIN. THICK.	0.46 mm 0.01811inch
	DIAMETER	4.8 ± 0.30 mm 0.189±0.01181 inch
	MATERIAL	LSZH
	COLOR	Blue, Green, Red, Yellow, Purple
	RIP CORD	No
PACKAGING	Reel or Spool	Reel

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		24AWG × 4P	
RATING TEMP VOLTAGE		75°C 300V	
CONDUCTOR RESISTANCE		9.38 OHM/100m/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/2S.	
SPARK TEST		DC 2.5 KV	
INSULATION	UNAGED	TENSILE STRENGTH	2400 PSI MIN. (1.69 Kg/m m ²)
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
JACKETED	UNAGED	TENSILE STRENGTH	1305 PSI MIN.(0.91 Kg/mm ²)
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 70%(100°C×168HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×168HRS)
INSULATION SHRINKBACK		150mm, 121°C±1°C×1HR ≤9.5mm	
COLD BEND TEST		-20°C×4HRS NO CRACK	
FLAME RETARDANT TEST		IEC 60332-1	
AC LEAKAGE CURRENT THROUGH OVERALL JACKET		AC 1500V ≤ 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		330 pF/100m MAX.	
STRUCTURAL RETURN LOSS		N/A	
NOMINAL VELOCITY OF PROPAGATION (NVP)		69%	
PROPAGATION DELAY		100 MHz 537.6nS/100m MAX.	
DELAY SKEW		1 ~ 100 MHz 45nS/100m MAX.	
PRINTING LEGEND : T.B.D			

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Electrical performance

ITEM Frequency (MHz)	Characteristic Impedance Upper limit Zu (Ω)	Characteristic Impedance Lower limit Zl (Ω)	IL MAX. (dB/100m)	NEXT MIN. (dB)	PS. NEXT MIN. (dB)	ELFEXT MIN. (dB/100m)	PS. ELFEXT MIN. (dB/100m)	RL. MIN. (dB)
1	-	-	2.0	65.3	62.3	63.8	60.8	20.0
4	115.2	86.8	4.0	56.3	53.3	51.8	48.8	23.0
8	112.6	88.8	5.8	51.8	48.8	45.7	42.7	24.5
10	111.9	89.4	6.5	50.3	47.3	43.8	40.8	25.0
16	111.9	89.4	8.2	47.2	44.2	39.7	36.7	25.0
20	111.9	89.4	9.3	45.8	42.8	37.8	34.8	25.0
25	112.9	88.5	10.4	44.3	41.3	35.8	32.8	24.3
31.25	114.1	87.7	11.7	42.9	39.9	33.9	30.9	23.6
62.5	118.3	84.5	17.0	38.4	35.4	27.9	24.9	21.5
100	121.9	82.0	22.0	35.3	32.3	23.8	20.8	20.1
200	128.8	77.6	32.4	30.8	27.8	17.8	14.8	18.0
250	131.5	76.0	36.9	29.3	26.3	15.8	12.8	17.3
300	134.2	74.4	41.0	28.1	25.1	14.3	11.3	16.8
350	136.9	72.8	44.8	27.1	24.1	12.9	9.9	16.3

Remark :

1. Cable that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.
2. Electrical characteristics between 100 and 350MHz is only for reference, not as acceptance criteria.