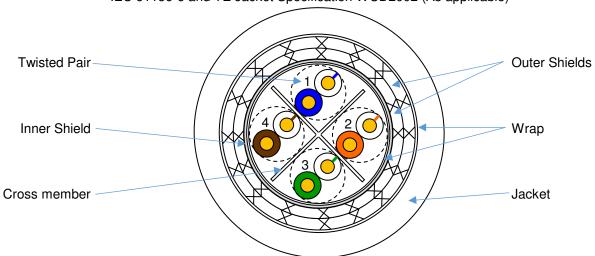




C6A-24B134XN1FA

CAT6A CABLE, AWG24, SF/UTP (DOUBLE OUTER SHIELD), FDR-25 JACKETED

This specification sheet forms a part of the latest issue of reference standard ANSI/TIA-568.2, IEC 61156-6 and TE Jacket Specification WCD2002 (As applicable)



CONSTRUCTION DETAILS					
PAIR COMPONENT	NOMINAL OD (mm)				
CONDUCTOR:	AWG24, 7/0.20, Stranded, Tin coated copper 0.61				
INSULATION:	HDPE 1.16				
PAIR CABLING:	2 of HDPE component 2.32				
CABLE ASSEMBLY NOMINAL OD (mm					
COMPONENT BUNDLE:	4 of HDPE Pair component				
	1 of Cross member				
	PET, Nominal thickness 0.03mm	6.06			
INNER SHIELD:	AL-Foil - Conductive side out	6.26			
OUTER SHIELD 1:	AWG36, Tin-coated copper				
	90% Nominal coverage	6.86			
OUTER SHIELD 2:	AWG36, Tin-coated copper				
	Optimised	7.42			
WRAP:	PET, Nominal thickness: 0.03mm	7.52			
OUTER JACKET:	FDR-25	9.52 ±0.48			
	Minimum wall: 0.75mm				
FINISHED CABLE					
WEIGHT:	127.7 kg/km Nominal				

COLOUR CODING & IDENTIFICATION				
PAIR COMPONENT	CONDUCTOR #1	CONDUCTOR #2		
# 1	96 (White/Blue)	6 (Blue)		
# 2	93 (White/Orange) 3 (Orange)			
# 3	95 (White/Green)	5 (Green)		
# 4	91 (White/Brown) 1 (Brown)			
OUTER JACKET	•			
JACKET COLOUR:	Jacket colour to be appended to part description in accordance			
	with MIL-STD 681. (Colours subject to availability)			
	e.g: C6A-24B134XN1FA-0 has a black ja	e.g: C6A-24B134XN1FA-0 has a black jacket.		
JACKET	"RAYCHEM - C6A-24B134XN1FA - Year of Manufacture - Batch Number"			
IDENTIFICATION:	Jacket identification to be marked in legible, contrasting colour.			
	(Either black or white subject to jacket colour)			



C6A-24B134XN1FA

Issue: G 30th Nov 2020 Page 2 of 2

CAT6A CABLE, AWG24, SF/UTP (DOUBLE OUTER SHIELD), FDR-25 JACKETED

This specification sheet forms a part of the latest issue of reference standard ANSI/TIA-568.2, IEC 61156-6 and TE Jacket Specification WCD2002 (As applicable)

	TECHNICAL DATA AND SPECIFICATIONS								
ELECTR	ELECTRICAL CHARACTERISTICS - TABLE I *								
Frequency MHz	Insertion Loss dB/100m (Max)	Return Loss dB/100m (Min)	NEXT dB/100m (Min)	ACRF dB/100m (Min)	PS NEXT dB/100m (Min)	PSACRF dB/100m (Min)	TCL dB/100m (Min)	ELTCL dB/100m (Min)	Propagation Delay ns/100m (Max)
1**	2.4	20.0	74.3	67.8	72.3	64.8	40.0	35.0	570
4	4.6	23.0	65.3	55.8	63.3	52.8	40.0	23.0	552
8	6.4	24.5	60.8	49.7	58.8	46.7	40.0	16.9	547
10	7.1	25.0	59.3	47.8	57.3	44.8	40.0	15.0	545
16	9.0	25.0	56.2	43.7	54.2	40.7	38.0	10.9	543
20	10.0	25.0	54.8	41.8	52.8	33.8	37.0	9.0	542
25	11.3	24.2	53.3	39.8	51.3	36.8	36.0	7.0	541
31.25	12.6	23.3	51.9	37.9	49.9	34.9	35.1	5.5	540
62.5	18.0	20.7	47.4	31.9	45.4	28.9	32.0		539
100	22.9	19.0	44.3	27.8	42.3	24.8	30.0		538
200	33.1	16.4	39.8	21.8	37.8	18.8	27.0		537
250	37.3	15.6	38.3	19.8	36.3	16.8	26.0		536
300	41.2	14.9	37.1	18.3	35.1	15.3	25.2		536
400	48.1	13.8	35.3	15.8	33.3	12.8	24.0		536
500	54.4	13.0	33.8	13.8	31.8	10.8	23.0		536

^{*} Note: Values in Table I for RL and NEXT are for reference only. Actual values shall be determined utilizing the formulas in ANSI/TIA-568.2 (Issue in effect)

^{**} Note: Cable performance is achieved by design only and thus is used for engineering information only.

1 , 0	, ,		
ELECTRICAL CHARACTERISTICS - CONTINUED			
IMPEDANCE:	100 Ohms Nominal @ 1 to 500MHz		
CAPACITANCE:	Mutual capacitance: ≤ 5.6nF/100m Nominal @ 1kHz		
	Pair to ground capacitance unbalance: ≤ 160pF/100m		
VELOCITY OF PROPAGATION:	65% Nominal		
OPTIMISED SHIELD:	Max Surface Transfer Impedance of 100 milliOhms/metre @ 30 MHz		
INSERTION	IL Values IAW TIA 568.2 (Issue in effect)		
LOSS NOTE:	24 AWG Stranded (120% of solid conductor values)		
ADDITIONAL REQUIREMENTS / INFORMATION			
COMPONENT / ELECTRICAL	In accordance with reference standard ANSI/TIA-568.2 & IEC 61156-6 (Issue in effect)		
JACKET MATERIAL	TE Specification WCD2002, Clause 5.9		
FINISHED CABLE	TE Specification WCD2002, Clause 6.1 (As applicable)		
TEMPERATURE RATING:	-40°C to +75°C		
DELAY SKEW:	45 ns/100m Maximum		
DC RESISTANCE:	145 Ω/km Maximum @ 20°C		
OPERATING VOLTAGE:	300V Maximum		
NOTES			
Other codes and suffixes may be added to the part description, as necessary, to capture any additional requirements imposed			

Other codes and suffixes may be added to the part description, as necessary, to capture any additional requirements imposing by the purchase order. Users should evaluate the suitability of this product for their application.