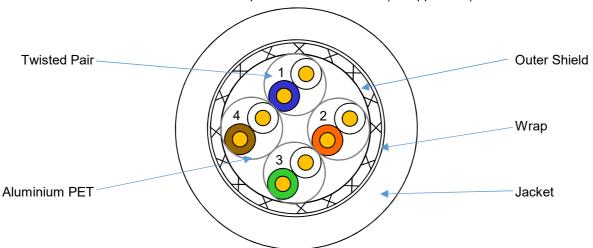


C7X-24B114XK1FA

CAT7 CABLE, AWG24, S/FTP (SINGLE OUTER SHIELD), FDR-25 JACKETED

This specification sheet forms a part of the latest issue of reference standard 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	0.60		
INSULATION:	Foam PE	1.35		
PAIR CABLING:	2 of Foam PE component	2.70		
PAIR SHIELD	Aluminium PET	2.90		
CABLE ASSEMBLY		NOMINAL OD (mm)		
COMPONENT BUNDLE:	4 of Foam PE Pair component	6.00		
OUTER SHIELD:	AWG36, Tin-coated copper			
	92% Nominal coverage	6.60		
WRAP:	PET, Nominal thickness: 0.03mm	6.70		
OUTER JACKET:	FDR-25	8.70 ±0.40		
	Minimum wall: 0.75mm			
FINISHED CABLE				
WEIGHT:	89 kg/km Nominal			

PAIR COMPONENT	CONDUCTOR #1	CONDUCTOR #2		
# 1	9 (White)	6 (Blue)		
# 2	9 (White)	3 (Orange)		
# 3	9 (White)	5 (Green)		
# 4	9 (White)	1 (Brown)		
OUTER JACKET				
JACKET COLOUR:	Jacket colour to be appended to part description in accordance with MIL-STD 681. e.g: C7X-24B114XK1FA-0 has a black jacket.			
JACKET IDENTIFICATION:	"RAYCHEM - C7X-24B114XK1FA - Year of Manufacture - Batch Number" Jacket identification to be marked in legible, contrasting colour. (Either black or white subject to jacket colour)			

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TECHNICAL DATA AND SPECIFICATIONS								
ELECTRICAL CHARACTERISTICS - TABLE I *								
Frequency MHz	Insertion Loss dB/100m (Max)	Return Loss dB/100m (Min)	NEXT dB/100m (Min)	PS NEXT dB/100m (Min)	FEXT dB/100m (Min)	TCL dB/100m (Min)	ELTCL dB/100m (Min)	Propagation Delay ns/100m (Max)
1			-		-	40.0	35.0	
4	5.6	23.0	78.0	75.0	70.0	34.0	23.0	552
8	7.9	24.5	78.0	76.0	70.0	31.0	16.9	547
10	8.8	25.0	78.0	77.0	70.0	30.0	15.0	545
16	11.1	25.0	78.0	78.0	70.0	28.0	10.9	543
20	12.4	25.0	78.0	79.0	70.0	27.0	9.0	542
25	13.9	24.2	78.0	80.0	70.0	26.0	7.0	541
31.25	15.6	23.3	78.0	81.0	70.0	25.1		540
62.5	22.3	20.7	75.5	72.5	70.0	22.0		539
100	28.5	19.0	72.4	69.4	70.0	20.0		538
200	41.2	16.4	67.9	64.9	70.0	17.0		537
250	46.5	15.6	66.4	63.4	70.0	16.0		536
300	51.3	15.6	65.2	62.2	70.0			536
600	75.1	15.6	60.7	57.7	70.0			536

Note 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.

Note 2: If FEXT loss is greater than 70dB, ACR-F loss may not be measured.

ELECTRICAL CHARACTERISTICS - CONTINUED					
IMPEDANCE:	100 Ohms Nominal @ 1 to 600MHz				
CAPACITANCE:	Mutual capacitance: ≤ 5.6nF/100m @ 1kHz				
	Pair to ground capacitance unbalance: ≤ 1600 pF/1km				
VELOCITY OF PROPAGATION:	65% Nominal				
INSERTION	IL Values IEC 61156-6				
LOSS NOTE:	24 AWG Stranded (120% of solid conductor values)				
ADDITIONAL REQUIREMENTS / INFO	RMATION				
COMPONENT / ELECTRICAL	In accordance with reference standard IEC 61156-6				
JACKET MATERIAL	TE Specification WCD2002, Clause 5.9				
FINISHED CABLE	TE Specification WCD2002, Clause 6.1 (As applicable)				
TEMPERATURE RATING:	-25°C to +75°C				
DELAY SKEW:	25 ns/100m Maximum				
DC RESISTANCE:	145 Ω/km Maximum @ 20°C				
OPERATING VOLTAGE:	300V Maximum				
NOTES					
Other codes and suffixes may be added	t to the part description, as necessary, to capture any additional requirements imposed				
by the purchase order. Users should ev	aluate the suitability of this product for their application.				

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