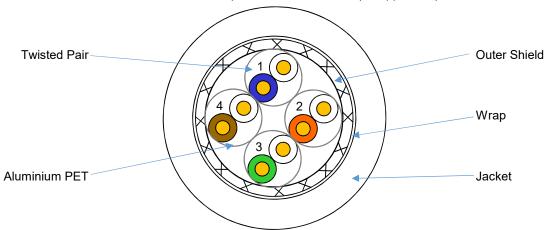


C7X-24B114XK1FA

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			

COLOUR CODING & IDENTIFICATION				
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 descri with MIL-STD 681.	ption in accordance		
	e.g: C7X-24B114XK1FA-0 has a black jack	ət.		
JACKET	"RAYCHEM - C7X-24B114XK1FA - Year of Manufacture - Batch Number"			
IDENTIFICATION:	Jacket identification to be marked in legible, contrasting colour.			
	(Either black or white subject to jacket colou	(Either black or white subject to jacket colour)		

Tyco Electronics UK Ltd. Faraday Road Dorcan SWINDON SN3 5HH Tel: +44 (0)1793 528171 Fax: +44 (0)1793 572516

TE Connectivity is a trading name of Tyco Electronics UK Ltd, Which is registered in England and Wales, number 550926. Registered office: Faraday Road, Dorcan, Swindon, SN3 5HH Website: www.te.com This drawing and the information set forth hereon are the property of Tyco Electronics UK Ltd, and are to be held in trust and confidence. Publication, disclosure or use for any purpose not expressly authorised in writing by Tyco Electronics UK Ltd is prohibited. This specification sheet takes precedence over documents referenced herein. As Tyco Electronics UK Ltd. reserve the right to make changes in construction without notice please contact Tyco Electronics UK Ltd to ensure that this document is the latest issue.



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)

	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)	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.

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 / INFORMATION				
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:	-40°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 to the part description, as necessary, to capture any additional requirements imposed				
by the purchase order. Users should evaluate the suitability of this product for their application.				

Tyco Electronics UK Ltd. Faraday Road Dorcan SWINDON SN3 5HH Tel: +44 (0)1793 528171 Fax: +44 (0)1793 572516

TE Connectivity is a trading name of Tyco Electronics UK Ltd, Which is registered in England and Wales, number 550926. Registered office: Faraday Road, Dorcan, Swindon, SN3 5HH Website: www.te.com This drawing and the information set forth hereon are the property of Tyco Electronics UK Ltd, and are to be held in trust and confidence. Publication, disclosure or use for any purpose not expressly authorised in writing by Tyco Electronics UK Ltd is prohibited. This specification sheet takes precedence over documents referenced herein. As Tyoo Electronics UK Ltd. reserve the right to make changes in construction without notice please contact Tyco Electronics UK Ltd to ensure that this document is the latest issue.