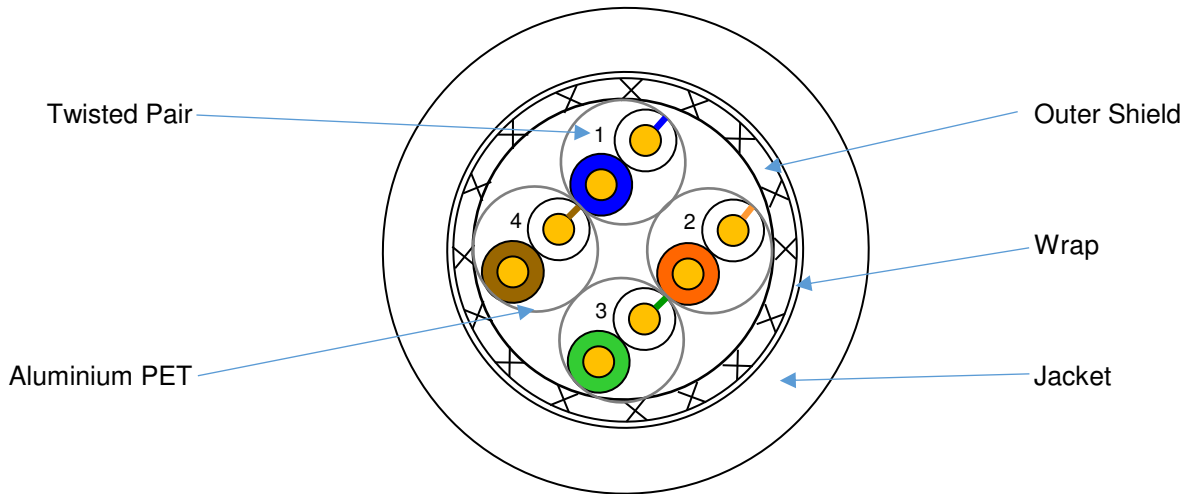


C7X-23A914XK18A

CAT7 CABLE, AWG23, S/FTP (SINGLE OUTER SHIELD), ZEROHAL® JACKETED

This specification sheet forms a part of the latest issue of reference standard IEC 61156-5 and TE Jacket Specification WCD2015 (As applicable)



CONSTRUCTION DETAILS		
PAIR COMPONENT		NOMINAL OD (mm)
CONDUCTOR:	AWG23, Solid, Bare copper	0.57
INSULATION:	Foam PE	1.30
PAIR CABLING:	2 of Foam PE component	2.60
PAIR SHIELD	Aluminium PET	2.80
CABLE ASSEMBLY		NOMINAL OD (mm)
COMPONENT BUNDLE:	4 of Foam PE Pair component	5.50
OUTER SHIELD:	AWG36, Tin-coated copper 92% Nominal coverage	6.10
WRAP:	PET, Nominal thickness: 0.03mm	6.20
OUTER JACKET:	Zerohal® Minimum wall: 0.75mm	8.20 ±0.40
FINISHED CABLE		
WEIGHT:	105 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. e.g: C7X-23A914XK18A-0 has a black jacket.	
JACKET IDENTIFICATION:	"RAYCHEM - C7X-23A914XK18A - Year of Manufacture - Batch Number" Jacket identification to be marked in legible, contrasting colour. (Either black or white subject to jacket colour)	

C7X-23A914XK18A

CAT7 CABLE, AWG23, S/FTP (SINGLE OUTER SHIELD), ZEROHAL® JACKETED

This specification sheet forms a part of the latest issue of reference standard IEC 61156-5 and TE Jacket Specification WCD2015 (As applicable)

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)	EL FEXT dB/100m (Min)	PS EL FEXT dB/100m (Min)	TCL dB/100m (Min)	Propagation Delay ns/100m (Max)
4	3.74	23.0	78.0	75.0	78.0	75.0	34.0	552
8	5.24	24.5	78.0	75.0	75.9	72.9	31.0	547
10	5.86	25.0	78.0	75.0	74.0	71.0	30.0	545
16	7.41	25.0	78.0	75.0	69.9	66.9	28.0	543
20	8.29	25.0	78.0	75.0	68.0	65.0	27.0	542
25	9.29	24.3	78.0	75.0	66.0	63.0	26.0	541
31.25	10.41	23.6	78.0	75.0	64.1	61.1	25.1	540
62.5	14.88	21.5	75.5	72.5	58.1	55.1	22.0	539
100	19.02	20.1	72.4	69.4	54.0	51.0	20.0	538
150	23.56	18.9	69.8	66.8	50.5	47.5	18.2	537
200	27.47	18.0	67.9	64.9	48.0	45.0	17.0	537
250	30.97	17.3	66.4	63.4	46.0	43.0	16.0	536
300	34.19	17.3	65.2	62.2	44.5	41.5	--	536
600	50.10	17.3	60.7	57.7	38.4	35.4	--	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 90dB, EL FEXT loss may not be calculated measured.

ELECTRICAL CHARACTERISTICS - CONTINUED	
IMPEDANCE:	100 Ohms Nominal @ 4 to 600MHz
CAPACITANCE:	Mutual capacitance: ≤ 5.6nF/100m @ 1kHz Pair to ground capacitance unbalance: ≤ 1600 pF/1km
VELOCITY OF PROPAGATION:	74% Nominal
INSERTION LOSS NOTE:	IL Values IEC 61156-5
ADDITIONAL REQUIREMENTS / INFORMATION	
COMPONENT / ELECTRICAL	In accordance with reference standard IEC 61156-5, ISO/IEC 11801
JACKET MATERIAL	TE Specification WCD2015, Clause 6.2
FINISHED CABLE	TE Specification WCD2015, Clause 6.1 (As applicable)
VOLTAGE WITHSTAND:	1kV (rms) for 1 minute
TEMPERATURE RATING:	-25°C to +75°C
DELAY SKEW:	25 ns/100m Maximum
DC RESISTANCE:	95 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.	