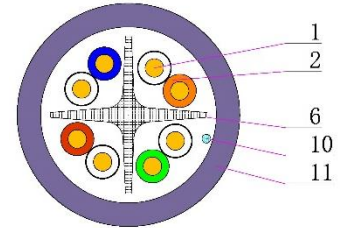


Evolution XPC CAT6 LSOH CPR Dca CABLE



Product Overview

Part Number	301-911
Product Description	Evolution XPC CAT6 LSOH CPR Dca CABLE

Cable Structure

1. Conductor	OFC (0.51 ± 0.005)mm
2. Insulation	HDPE ID 0.90 ± 0.05mm
3. Twisted Pair	Lay length ≤30mm
4. Cabling	Lay length ≤200mm
5. Pair Screen	N/A
6. Separate	PE Cross
7. Mylar tape	N/A
8. Drain Wire	N/A
9. Overall Screen	N/A
10. Rip Cord	Optional

Specifications subject to change without notice.

11. Jacket	LSOH 5.70 ± 0.30mm Colour: Purple
Bulk cable weight	Approx: 9.70kg/305m
Revision History	DCS-01 13-11-2024

Standard & Application

ISO/IEC 11801	<input type="checkbox"/> 100Base-T4
IEC 61156-5	<input type="checkbox"/> 100Base-TX
YD/T 1019	<input type="checkbox"/> 100VG-AnyLAN
EN 50173	<input type="checkbox"/> 1000Base-T
ANSI/TIA-568.2-D	<input type="checkbox"/> 1000Base-TX
UL 444	<input type="checkbox"/> 155Mbps ATM
EN 50575	<input type="checkbox"/> 622Mbps ATM
EN 13501-6	

Electrical Properties

Conductor DC Resistance	≤ 9.5Ω/100m
Resistance unbalance within a pair	≤ 2%
Resistance unbalance between pairs	≤ 4%
Dielectric of conductor/conductor	2,5 kV DC for 2s
Dielectric conductor/screen	1.0kV·1min DC
Insulation Resistance	≥ 5000MΩ.km
Mutual Capacitance of a Pair	N/A
Pair to Ground Unbalance Capacitance	≤160 pF/100m

Specifications subject to change without notice.

Physical Properties

Material		Unaging		After Ageing			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥300	≥16	/	/	/	
	Aging Condition		100 °C x 48 hrs				
Jacket	LSZH	≥100	≥10.6	≥75% of Unaging		≥75% of Unaging	
	Aging Condition		100 °C x 240 hrs				
	PVC	≥100	≥13.8	≥85% of Unaging		≥50% of Unaging	

Transmission Performance

Frequency	(MHz)	1	4	8	10	16	20	25	30	31.25	62.5	100	200	250
Transfer Impedance	≤mΩ/m	/	/	/	/	/	/	/	/	/	/	/	/	/
Coupling Attenua-tion	≥dB	/	/	/	/	/	/	/	/	/	/	/	/	/
Phase delay	≤ns/90m	570	552	547	545	543	542	541	541	540	539	538	537	536
Delay Skew	≤ns/100m	45	45	45	45	45	45	45	45	45	45	45	45	45
Attenua-tion	≤dB/100m	2.0	3.8	5.3	6.0	7.6	8.5	9.5	10.4	10.7	15.4	19.8	29.0	32.8
TCL	≥dB	40.0	40.0	40.0	40.0	38.0	37.0	36.0	35.2	35.1	32.0	30.0	27.0	26.0
ELTCTL	≥dB	35.0	23.0	16.9	15.0	10.9	9.0	7.0	5.5	/	/	/	/	/
NEXT	≥dB	75.3	66.3	61.8	60.3	57.2	55.8	54.3	53.1	52.9	48.4	45.3	40.8	39.3
PSNEXT	≥dB	72.3	63.3	58.8	57.3	54.2	52.8	51.3	50.1	49.9	45.4	42.3	37.8	36.3
ACRF	≥dB/100m	67.8	55.8	49.7	47.8	43.7	41.8	39.8	38.3	37.9	31.9	27.8	21.8	19.8
PS ACRF	≥dB/100m	64.8	52.8	46.7	44.8	40.7	38.8	36.8	35.3	34.9	28.9	24.8	18.8	16.8
PSANEXT	≥dB	/	/	/	/	/	/	/	/	/	/	/	/	/
PS AACR-F	≥dB	/	/	/	/	/	/	/	/	/	/	/	/	/
Impedance (Ω)	Max.	115	115	115	115	115	115	115	115	115	115	115	122	122
	Min.	85	85	85	85	85	85	85	85	85	85	85	78	78
RL	≥dB	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.8	23.6	21.5	20.1	18.0	17.3

Specifications subject to change without notice.