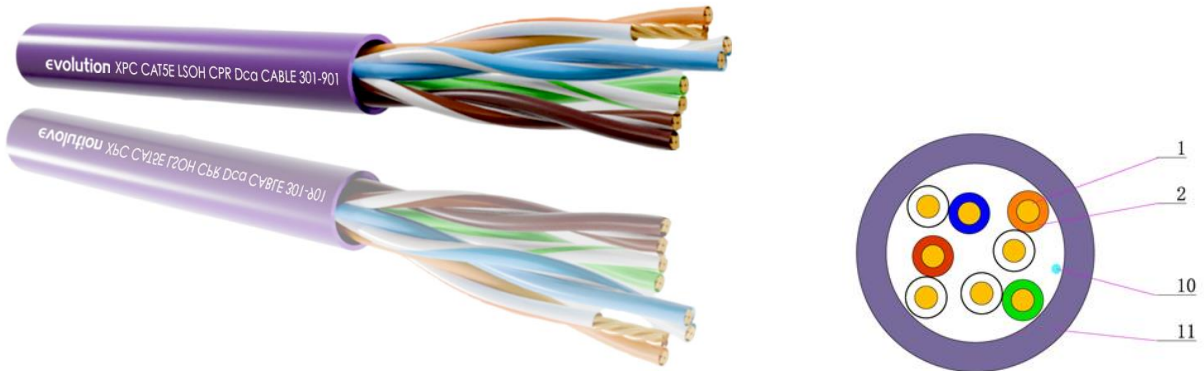


# Evolution XPC CAT5E LSOH CPR Dca CABLE



## Product Overview

<b>Part Number</b>	301-901
<b>Product Description</b>	Evolution XPC CAT5E LSOH CPR Dca CABLE

## Cable Structure

<b>1. Conductor</b>	OFC (0.47 ± 0.005)
<b>2. Insulation</b>	PE ID 0.83 ± 0.05mm
<b>3. Twisted Pair</b>	Lay length ≤30mm
<b>4. Cabling</b>	Lay length ≤200mm
<b>5. Pair Screen</b>	N/A
<b>6. Separate</b>	N/A
<b>7. Mylar tape</b>	N/A
<b>8. Drain Wire</b>	N/A
<b>9. Overall Screen</b>	N/A
<b>10. Rip Cord</b>	Optional

Specifications subject to change without notice.

<b>11. Jacket</b>	LSOH 4.80 ± 0.30mm Colour: Purple
<b>Bulk cable weight</b>	Approx: 7.60kg/305m
<b>Revision History</b>	DCS-01 13-11-2024

### Standard & Application

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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"/> 155Mbps ATM
UL 444	<input type="checkbox"/> 622Mbps ATM
EN 50575	
EN 13501-6	

### Electrical Properties

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<b>Conductor DC Resistance</b>	≤ 21Ω/90m
<b>Resistance unbalance within a pair</b>	≤ 3%
<b>Resistance unbalance between pairs</b>	N/A
<b>Dielectric of conductor/conductor</b>	1.0kV·1min DC
<b>Dielectric conductor/screen</b>	-
<b>Insulation Resistance</b>	≥ 5000 MΩ·KM
<b>Mutual Capacitance of a Pair</b>	≤ 5.6 nF/100m
<b>Pair to Ground Unbalance Capacitance</b>	≤330 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				
	PE	≥350	≥9.7	≥75% of Unaging		≥75% of Unaging	
	Aging Condition		100 °C x 48 hrs				
Jacket	LSZH	≥100	≥9.0	≥70% of Unaging		≥50% of Unaging	
	Aging Condition		100 °C x 168 hrs				
	PVC	≥100	≥9.0	≥70% of Unaging		≥50% of Unaging	

### Transmission Performance

Frequency	(MHz)	1	4	8	10	16	20	25	31.25	62.5	100
Transfer Impedance	≤mΩ/m	/	/	/	/	/	/	/	/	/	/
Coupling Attenuation	≥dB	/	/	/	/	/	/	/	/	/	/
Phase delay	≤ns/90m	/	/	/	498	/	/	/	/	/	/
Delay Skew	≤ns/100m	44	44	44	44	44	44	44	44	44	44
Attenuation	≤dB/100m	3.0	3.9	5.4	6.1	7.7	8.7	9.7	10.9	15.8	20.4
TCL	≥dB	/	/	/	/	/	/	/	/	/	/
ELTCTL	≥dB	/	/	/	/	/	/	/	/	/	/
NEXT	≥dB	60.0	54.8	50.0	48.5	45.2	43.7	42.1	40.5	35.7	32.3
PSNEXT	≥dB	57.0	51.8	47.0	45.5	42.2	40.7	39.1	37.5	32.7	29.3
ACRF	≥dB/100m	58.6	46.6	40.6	38.6	34.5	32.6	30.7	28.7	22.7	18.6
PS ACRF	≥dB/100m	55.6	43.6	37.6	35.6	31.5	29.6	27.7	25.7	19.7	15.6
PSANEXT	≥dB	/	/	/	/	/	/	/	/	/	/
PS AACR-F	≥dB	/	/	/	/	/	/	/	/	/	/
Impedance (Ω)	Max.	115	115	115	115	115	115	115	115	115	115
	Min.	85	85	85	85	85	85	85	85	85	85
RL	≥dB	19.0	19.0	19.0	19.0	19.0	19.0	18.0	17.1	14.0	12.0

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