



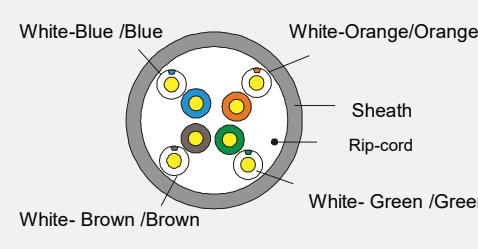
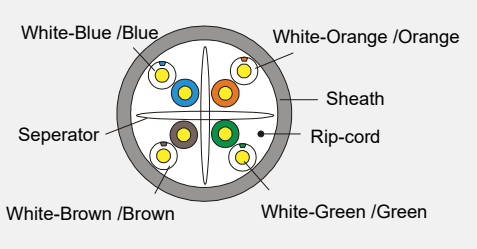
C-Series Ethernet Cable

U/UTP CAT5e and CAT6 data cable with LSZH sheath in 305m pullboxes

Now available in an easy-run plastic reel pullbox, the C-Series by AVOL™ offers high performance and affordability unshielded UTP Ethernet cable. Cable is available in CAT5e and CAT6 standards, in a variety of different colours. The C-Series is perfect for a multitude of residential and commercial IP communication applications.

- Available in CAT5e and CAT6 standards
- Low-Smoke Zero Halogen (LSZH) material sheath
- 305m pullboxes with easy-run reel & cable guide
- Available in a variety of sheath colours
- Ideal for general purpose network communications, IP telephony, CCTV surveillance, intercoms and more

Cable Specifications

Model		305m CAT5e Unterminated Unshielded UTP with LSZH Sheath	305m CAT6 Unterminated Unshielded UTP with LSZH Sheath													
Cable Type		305m CAT5e Unterminated Unshielded UTP with LSZH Sheath	305m CAT6 Unterminated Unshielded UTP with LSZH Sheath													
Cable Packaging		Pullbox with easy-run plastic reel and cable guide	Pullbox with easy-run plastic reel and cable guide													
Model Reference		CAT5-C471B/Y/R/G/W - Blue / Yellow / Red / Grey / White (Sheath Colour)	CAT6-C511B/Y/R/G/W - Blue / Yellow / Red / Grey / White (Sheath Colour)													
Conductor	Material	Solid Bare Copper Cable														
	Overall Diameter	0.470mm ±0.005, >25 AWG (approx)	0.510mm ±0.005, 24 AWG (approx)													
Insulation	Material	HDPE														
	Diameter	0.86mm ±0.05	0.88mm ±0.05													
Sheath	Thickness	0.50mm ±0.05														
	External O.D.	4.9mm ±0.4														
	Surface	Clean, Frap, Satiation														
	Material	LSZH (RoHS compliant)														
Surface Printing	Letter Height	3.0±0.3mm														
	Colour	Black														
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa): ≥13.5, Elongation: ≥150%														
	Aging Period (°C x hrs)	100°C x 24h x 7d														
	After Aging	Tensile Strength (Mpa): ≥12.5, Elongation: ≥125%														
	Cold Bend (-20 ±2°C x 4h)	8 x Cable O.D., No visible cracks														
Electrical Properties (20°C)	Impedance	100±15 Ω (1.0 - 100.0MHz)														
	Delay Skew	≤45ns/100m (1.0 - 100.0MHz)														
	DC Resistance	11.5 Ω/100m (max)	9.5 Ω/100m (max)													
	DC Conductor Resistance Unbalance	5.0% (max)														
Cable Diagram																
	CAT5e at ≤90m and 20°C		CAT6 at ≤90m and 20°C													
Permanent Link Technical Performance	Freq. (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	Phase Delay ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PS ELFEXT ≥dB	Freq. (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	Phase Delay ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PS ELFEXT ≥dB
	1	20.0	2.45	65.3	570.00	62.3	63.8	60.8	1	19.1	3.0	65.0	570.0	62.0	64.2	61.2
	4.0	23.0	4.86	56.3	552.00	53.3	51.8	48.8	4.0	21.0	3.5	64.1	552.0	61.8	52.1	49.1
	8.0	24.5	6.92	51.8	546.73	48.8	45.7	42.7	8.0	21.0	5.0	59.4	546.7	57.0	46.1	43.1
	10.0	25.0	7.76	50.3	545.38	47.3	43.8	40.8	10.0	21.0	5.5	57.8	545.4	55.5	44.2	41.2
	16.0	25.0	9.90	47.2	543.00	44.4	39.7	36.7	16.0	20.0	7.0	54.6	543.0	52.2	40.1	37.1
	20.0	25.0	11.12	45.8	542.05	42.8	37.8	34.8	20.0	19.5	7.9	53.1	542.1	50.7	38.2	35.2
	25.0	24.3	12.50	44.3	541.20	41.3	35.8	32.8	25.0	19.0	8.9	51.5	541.2	49.1	36.2	33.2
	31.25	23.6	14.07	42.9	540.44	39.9	33.9	30.9	31.25	18.5	10.0	50.0	540.4	47.5	34.3	31.3
	62.5	21.5	20.39	38.4	538.55	35.4	27.9	24.9	62.5	16.0	14.4	45.1	538.6	42.7	28.3	25.3
	100	20.1	26.37	35.3	537.60	32.3	23.8	20.8	100	14.0	18.6	41.8	537.6	39.3	24.2	21.2
					-				200	11.0	27.4	36.9	536.5	34.3	18.2	15.2
					-				250	10.0	31.1	35.3	536.3	32.7	16.2	13.2
Reference Standards		ISO/IEC11801, TIA-568-C.2, IEC61156-6							ISO/IEC11801, ANSI/TIA-568.2-D							

Your local AVOL™ data cabling professional: