

## Category 5e UTP PVC, LSZH, External & Stranded Cable



Matrix Cat5e UTP Cable outperforms the required standards outlined in ANSI/TIA/EIA-568-C.2 Category 5e & ISO/IEC-11801 edition 2.2

PVC & LSZH are compliant to EuroClass ECA of the CPR Regulations

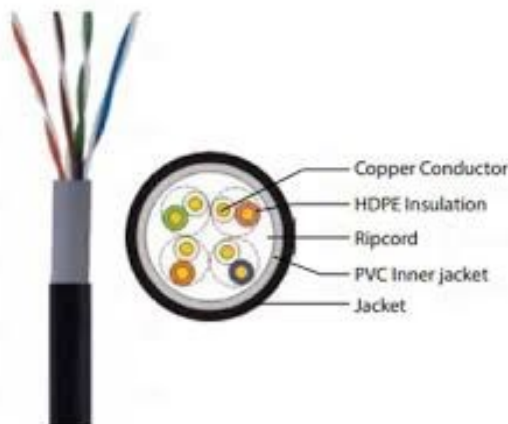
- 24AWG solid copper conductors
- 305 metre snag free box
- Reverse metre marking on cable

Available with:

- Grey PVC sheath (solid & stranded versions)
- Violet LSZH sheath
- Red, Green, Blue, Yellow & White LSZH sheath available as standard
- Dual Jacketed external grade cable with Black outer, UV stabilised, LDPE sheath over PVC inner sheath & is available in 305m box or reels and 500m reels

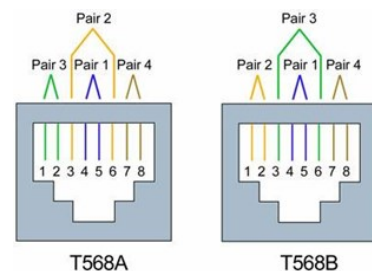
### External Grade Cat 5e

### Internal Cat5e



Colour codes:

- Pair 1 – **BLUE** + WHITE/BLUE
- Pair 2 – **ORANGE** + WHITE/ORANGE
- Pair 3 – **GREEN** + WHITE/GREEN
- Pair 4 – **BROWN** + WHITE/BROWN



Description	Part Number
Cat5e PVC Grey	MATRIX-UTP-GY-P-SO
Cat5e LSZH Violet	MATRIX-UTP-VI-L-SO
Cat5e LSZH colour xx = BL, GN, OR, RD, VI, WH or YE	OEM-C5E-ULS-3-xx
Cat5e PE Black External—305m Box	MATRIX-UTP-BK-PE-SO
Cat5e PE Black External—305metre Reel	MATRIX-UTP-PE-305R
Cat5e PE Black External—500metre Reel	MATRIX-UTP-PE-500R
Cat5e PVC Grey Stranded Patch Cable	MATRIX-UTP-GY-P-ST

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## Category 5e UTP PVC, LSZH, External & Stranded Cable

### Specifications

#### Mechanical Characteristics

- Conductor insulation — HDPE
- Internal grade Outer sheath — LSZH or PVC
- External grade Inner sheath - PVC
- External grade Outer sheath— UV stabilised LDPE
- Operating temperature  $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Cable	Conductor $\varnothing$	Insulation $\varnothing$	Overall $\varnothing$
Cat5e PVC	0.48 mm	0.18 mm	$4.80 \pm 0.2$ mm
Cat5e LSZH	0.49 mm	0.18 mm	$4.90 \pm 0.2$ mm
Cat5e External	0.48 mm	0.18 mm	$5.10 \pm 0.2$ mm
Cat5e Stranded	24 AWG	0.28 mm	$5.40 \pm 0.2$ mm

#### Electrical Performance

- Conductor Resistance:  $93.8\Omega/\text{Km}$  @  $20^{\circ}$  max.
- Resistance Unbalance: 5% max.
- Capacitance Unbalance:  $330\text{pF}/100\text{m}$  max.
- Delay Skew  $\leq 45\text{ns}/100\text{m}$
- Nominal Velocity of Propagation (NVP) : 69%

Frequency (MHz)	Attenuation Max. dB/100m	Pr-Pr NEXT Min. dB $\geq 100\text{m}$	Power Sum NEXT Min. dB dB $\geq 100\text{m}$	ACR Min . dB	Pr-Pr FEXT Min . dB $\geq 100\text{m}$	Power Sum ELFEXT Min. dB dB/100m
.772	1.8	67.0	64.0	65.2	66.0	63.0
1	2.0	65.3	62.3	63.3	63.8	60.8
4	4.1	56.3	53.3	52.2	51.7	48.7
8	5.8	51.8	48.8	46.0	45.7	42.7
10	6.5	50.3	47.3	43.8	43.8	40.8
16	8.2	47.3	44.3	39.1	39.7	36.7
20	9.3	45.8	42.8	36.5	37.7	34.7
25	10.4	44.3	41.3	33.9	35.8	32.8
31.25	11.7	42.9	39.9	31.2	33.9	30.9
62.5	17.0	38.4	35.4	21.4	27.8	24.8
100	22.0	35.3	32.3	13.3	23.8	20.8

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