

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 EN13501-6 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 to EN61034-2 & EN60754-1/2
- 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

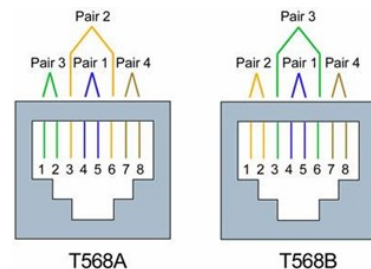
External Grade Cat 5e

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	C5EC-GY
Cat5e LSZH Violet	C5ELS
Cat5e PE Black External—305m Box	C5ECEX
Cat5e PE Black External—305metre Reel	C5ECEX-305
Cat5e PE Black External—500metre Reel	C5ECEX-500
Cat5e PVC Grey Stranded Patch Cable	C5ECPC

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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 $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$

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

Electrical Performance

- Conductor Resistance: $93.8\Omega/\text{Km}$ @ 20° 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—70%

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

This document subject to change without notice.