

U/UTP CAT5E 4PR PVC + PE

STANDARDS

TIA - 568 C2
IEC 61156-5
EN 50288-3-1
EN 50173
ISO/IEC 11801

APPLICATIONS

10BASE-T (IEEE 802.3)
4/16 Mbps TOKEN RING (IEEE 802.5)
100BASE-VG-AnyLAN
100 Mbps TP-PMD (ANSI X3T9.5)
100BASE-T (IEEE 802.3)
55/155 Mbps ATM
1000BASE-T (Gigabit Ethernet)

COLOUR CODES

Pairs Colours Combinations

1	White-Blue / Blue
2	White-Orange / Orange
3	White-Green / Green
4	White-Brown / Brown

External sheath colour: Black

PART NUMBER / PACKAGING

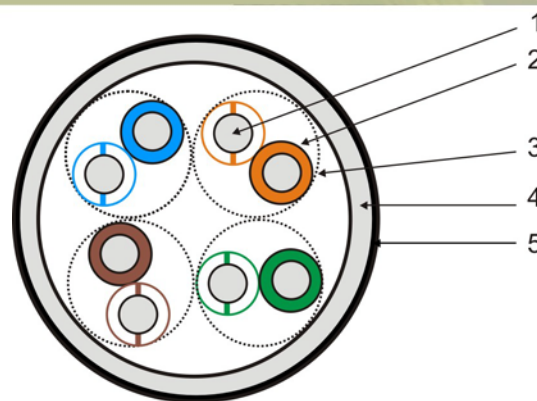
52934A1NGPQ / Spools 500m
52934A1NGP / Spools 1000m

OTHER CHARACTERISTICS

Storage Temperature -20°C to 70°C
Operating Temperature -20°C to 70°C

Laying Temperature -5°C to +50°C
(recommendation: between -5°C and +5°C,
prior storage 24h at 20°C.)

Edition: January 2013



CONSTRUCTION

- 1 – Conductor: 24 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Inner sheath: PVC material.
- 5 – Outer sheath: PE material.

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20°C:	93.8
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	65
Mean input Impedance (Ω):	100 ± 5 @ 100MHz
Propagation delay (ns/100MHz):	max. 518
Delay Skew (ns/100m):	max. 40
Coupling Att dB (min.):	@30-100MHz 40 @100-1000MHz 40-20log(f/100)

Approx. outer diameter (mm):	6.4
Approx. weight (kg/km):	42
Min. bending radius (mm):	25.6
Calorific Value (MJ/m):	0.883

TRANSMISSION CHARACTERISTICS

Freq MHz	ATTN dB/100m (max.)	NEXT dB (min.)	PS-NEXT dB (min.)	ELFEXT dB/100m (min.)	PS-ELFEXT dB/100m (min.)	ACR dB/100m (min.)	PS-ACR dB/100m (min.)	RL dB (min.)
1*	2.0	65.3	62.3	63.8	60.8	63.3	60.3	20.0
4	4.1	56.3	53.3	51.8	48.8	52.2	49.2	23.0
8	5.8	51.8	48.8	45.7	42.7	46.0	43.0	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	39.0	36.0	25.0
25	10.4	44.3	41.3	35.8	32.8	33.9	30.9	24.3
31.25	11.7	42.9	39.9	33.9	30.9	31.2	28.2	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.4	18.4	21.5
100	22.0	35.3	32.3	23.8	20.8	13.3	10.3	20.1
125*	24.9	33.8	30.8	21.9	18.9	9.0	6.0	19.4
155*	28.1	32.4	29.4	20.0	17.0	4.4	1.4	18.8
200*	32.4	30.8	27.8	17.8	14.8	---	---	18.0

* For information only.

Note: DATA cables are not suitable for low impedance applications as: heating, lighting, etc...

No reproduction without the written consent of General Cable – General Cable reserves the right to change the specifications for improvement without notice.