

U/UTP CAT6 4PR PVC + ARMOUR + PE

STANDARDS

TIA – 568 C2
IEC 61156-5
EN 50288-6-1
ISO/IEC 11801
EN 50173

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

Outer sheath colour: Black

PART NUMBER / PACKAGING

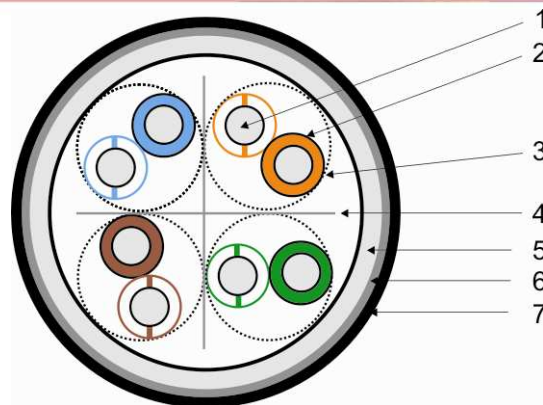
53814A4NGPQ / Spools 500m
53814A5NGP / Spools 1000m

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: October 2013



CONSTRUCTION

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Cross Filler
- 5 – Inner Sheath: PVC material
- 6 – Armour: Corrugated Aluminium TApe (CATA).
- 7 – 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 \pm 5 @ 100MHz
Propagation delay (ns@10MHz):	max. 518
Delay Skew (ns/100m):	max. 40
Coupling Att dB (min.):	@30-100MHz 85 @100-1000MHz 85-20log(f/100)

Approx. outer diameter (mm):	11.5
Approx. weight (kg/km):	128
Min. bending radius (mm):	173

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR	RL
MHz	dB/100m (max.)	dB (min.)	dB (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)
1*	2.0	75.3	72.3	68.0	65.0	73.2	70.2	20.0
4	3.8	66.3	63.3	58.0	55.0	62.5	59.5	23.0
8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3
300*	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3
350*	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3

* For information only.

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

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