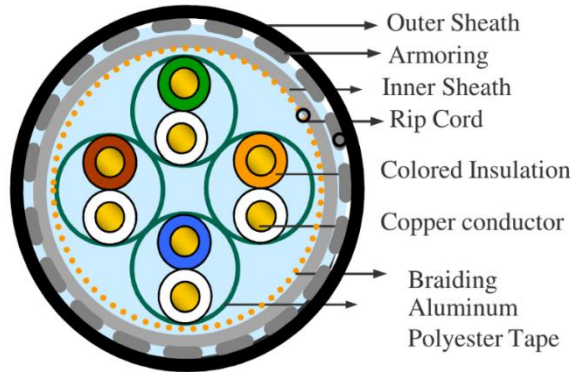


CAT 6A SF/UTP GI ARMD CABLE

Channeltech Systems provide an array of Cat6A SF/UTP Cables with different conductor sizes, tailored to meet every Ethernet requirement. Our Cat 6A Cables boast compatibility with data rates of up to 10 Gbps, making them the prime selection for LAN/WAN Solutions. Each cable comprises 8 copper conductors, with 2 conductors intricately twisted to forge a pair. The amalgamation of 4 pairs, sheathed with FR grade material, ensures unparalleled performance and durability

- Cable Type : SF/UTP
- Category : Cat6A
- No. of Pairs : 4



Physical Construction:

• Conductor Type	Solid Bare Electrolytic Grade Copper
• Conductor Size	23 AWG
• Insulation	Polyolefin
• Insulation Diameter	1.05 mm ± 0.20 mm
• Pairing	Twisted into two cores
• Shielding-1 (Tapping)	Overall bunch covered with Al Foil Myler (Covering 100%)
• Shielding-2 (Braiding)	Annealed Tinner Copper
• Inner Sheath	PVC/LSZH/PE
• Armoring	GI Wire (22 x 0.8 mm ± 0.2 mm)
• Outer Sheath	PVC/LSZH/PE
• Color of Sheath	As per requirement
• Cable Diameter	11.0 mm ± 0.5 mm
• Printing	Each meter printed with given details in PO

Electrical Properties:

• Conductor Resistance (Ω/km)	93.8 (Max)
• Mutual Capacitance (nF/100 M)	5.6 (Max)
• Resistance Unbalance (%)	5 (Max)
• Worst Delay Skew (ns/100 M)	≤ 45
• NVP (%)	69
• Characteristic Impedance (Ω)	100 ± 15

Mechanical Properties:

• Bending Radius	≤ 20 x Cable Diameter
• Installation Temperature	0 to +50 °C
• Operating Temperature	-20 to +75 °C

Pair Identification Colour Code:

Pair#1-2	White	Orange	Orange
Pair#3-6	White	Green	Green
Pair#4-5	White	Blue	Blue
Pair#7-8	White	Brown	Brown

High Frequency Electrical Properties:

Frequency	IL	NEXT	PSNEXT	ACRF	PSACRF	RL
(MHZ)	dB	dB	dB	dB	dB	dB
	Max	Min.	Min.	Min.	Min.	Min
1	2.3	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	51.2	48.2	19.0
8	5.8	58.2	55.6	45.2	42.2	19.0
10	6.5	56.6	54.0	43.3	40.3	19.0
16	8.2	53.2	50.6	39.2	36.2	18.0
20	9.2	51.6	49.0	37.2	34.2	17.5
25	10.2	50.0	47.3	35.3	32.3	17.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5
62.5	16.4	43.4	40.6	27.3	24.3	14.0
100	20.9	39.9	37.1	23.3	20.3	12.0
200	30.1	34.8	31.9	17.2	14.2	9.0
250	33.9	33.1	30.2	15.3	12.3	8.0
300	37.4	31.7	28.8	13.7	10.7	7.2
400	43.7	28.7	25.8	11.2	8.2	6.0
500	49.3	26.1	23.2	9.3	6.3	6.0

Ref Standard:

- ANSI/TIA-568.2-D
- ISO/IEC 11801 2ND Edition

Packing Standard:

- Packing Style : Wooden Reel
- Packing Length : Available in 305-meter length

Approved by
Technical Head