



**ELEVATE  
YOUR CONNECTIVITY  
PERFORMANCE**

**TARANG SHAKTI - LAN CABLE  
NETWORKING SOLUTION  
PRODUCT CATALOGUE**

# APAR EMPOWERING A SMARTER WORLD SINCE 1958



Presence in

**140+**

Countries

**9**

Manufacturing Units



**#1**

Largest global aluminium & alloy conductor manufacturer



**#3**

Largest global manufacturer of Transformer oils



**#1**

Largest manufacturer of Renewable & Speciality Cables in India



Manufacturer of OFC & Hybrid Cables

**65**

**YEARS**

of Manufacturing Experience

**\$ 1.8**

**BILLION**

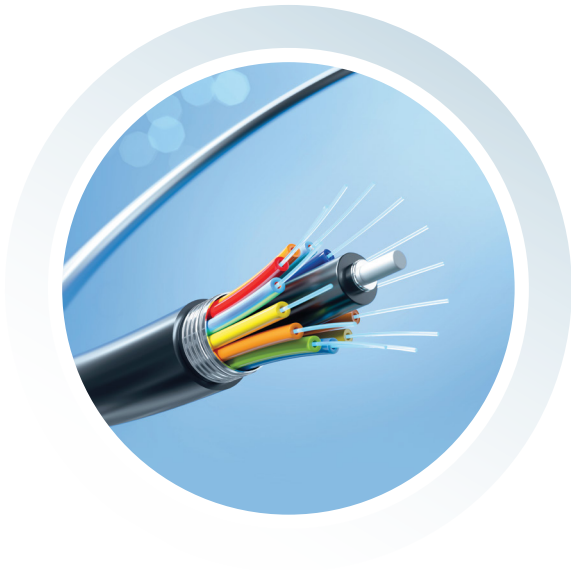
FY23 Consolidated Revenue

**19.3%**

**CAGR**

Last 5 years

**49%** EXPORT REVENUES



## TELECOM SOLUTIONS OVERVIEW

APAR is a leading Global Telecom Solutions company focusing on innovative solutions for global markets. The uniqueness lies in its design and manufacturing capabilities supported by backward integration. The wide range of tele-communication Optical Fibre Cable and Hybrid Cable products have been carved out from its rich experience across Telecom, Defense, Power and Transport industries over the years. APAR Telecom services has capability and potential to create digital networks, passive infrastructure gateways and network densification for Urban (Mobility Networks and FTTx, broadband Networks), Rural (Middle Mile and Last mile connectivity), Defense MHA (Border & Cantonment Fortification) and Enterprise Connectivity (across multiple Industries).

APAR's Telecom Solutions is driven by Innovation, customer-centricity and sustainability.

### TARANG SHAKTI - LAN CABLES

High-performance connectivity meets personalized solutions at APAR. While known for superior materials and global standards (ANSI/TIA, ISO/IEC, EN, UL/ETL/TUV), APAR goes beyond LAN cables. We distinguish ourselves by:

**Customised Solutions:** Avoid off-the-shelf. Our skilled team creates LAN cable and optical fibre solutions for your specific needs, maximizing efficiency and exceeding expectations.

**Engine of Innovation:** We invest extensively in R&D, pushing technology forward. Access innovative solutions to meet rising bandwidth, speed, and reliability needs. We set industry standards, not merely meet them.

**Devoted Partnerships:** We value long-term connections over transactions. Our attentive crew ensures a smooth and worry-free experience from initial consultations to post-installation support.





## CAT CABLE PRODUCT VARIETY

SR. NO.	PRODUCT DESCRIPTION	PAGE NUMBER
01	CAT 5e U/UTP 24AWG Cable	1
02	CAT 5e SF/UTP 24AWG Cable	4
03	CAT 6 U/UTP 24AWG Cable	7
04	CAT 6 U/UTP 23AWG Cable	10
05	CAT 6 F/UTP 24AWG Cable	13
06	CAT 6 U/UTP 24AWG Cable	16
07	CAT 6 SF/UTP 23AWG Cable	19
08	CAT 6A U/UTP 23AWG Cable	22
09	CAT 6 U/UTP 23AWG Double Sheath ECCS Tape Armored Cable	25
10	CAT 6 U/UTP 23AWG Double Sheath Steel Wire Armored Cable	28

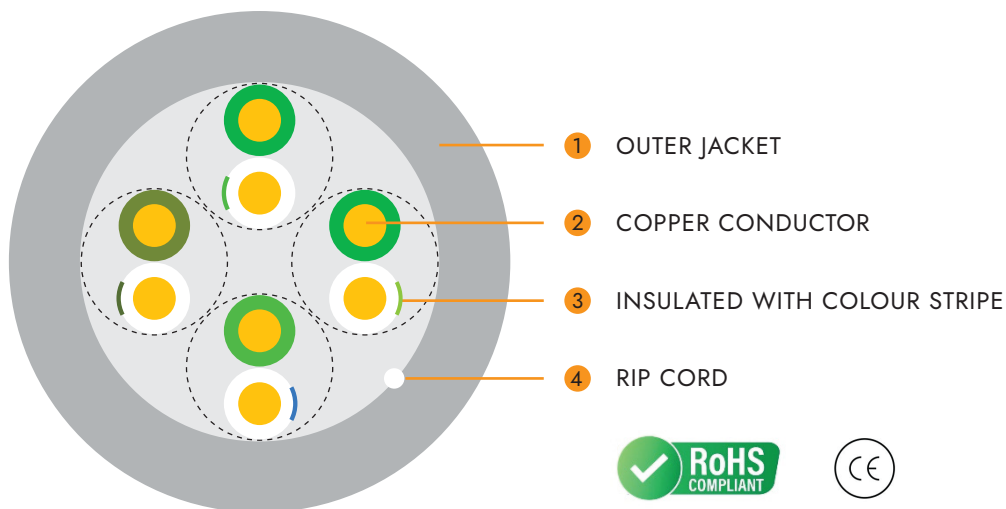
# CAT 5e U/UTP 24AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 5e U/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 100MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 100 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE variants

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (24AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $5.0 \pm 0.3$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 5e 24AWG U/UTP Year of Mfg. Cable ID XXX Mtr Marking

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

## TRANSMISSION CHARACTERISTICS AT 20°C

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (db)	PSELFEXT (db)	ACR (db)	PSACR (db)
1	2	20	65.3	62.3	63.8	60.8	63.3	60.3
4	4.1	23	56.3	53.3	51.8	48.8	52.2	49.2
8	5.8	24.5	51.8	48.8	45.7	42.7	46	43
10	6.5	25	50.3	47.3	43.8	40.8	43.8	40.8
16	8.3	25	47.2	44.2	39.7	36.7	39	36
20	9.3	25	45.8	42.8	37.8	34.8	36.5	33.5
25	10.4	24.2	44.3	41.3	35.8	32.8	33.9	30.9
31.25	11.7	23.6	42.9	39.9	33.9	30.9	31.2	28.2
62.5	17	21.5	38.4	35.4	27.9	24.9	21.4	18.4
100	22	20.1	35.3	32.3	23.8	20.8	13.3	10.3

100M-Horizontal Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 100 N

Bending Radius: > 4 X Cable Diameter at -20°C ± 1°C

Flame Rating: Comply with IEC 60332-1

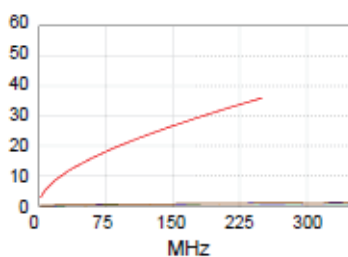
### PACKING

Reelex-I Box (305 Mtr)

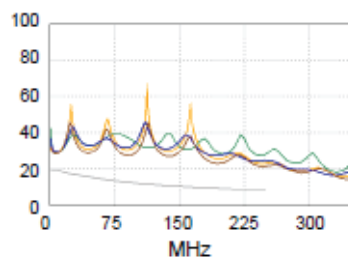
Reel in a Box (305 Mtr)

Reel (500/1000 Mtr)

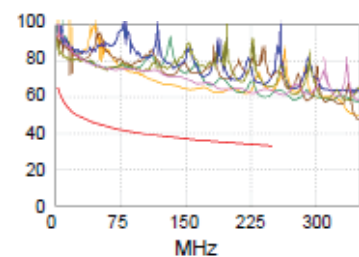
INSERTION LOSS



RETURN LOSS



NEXT



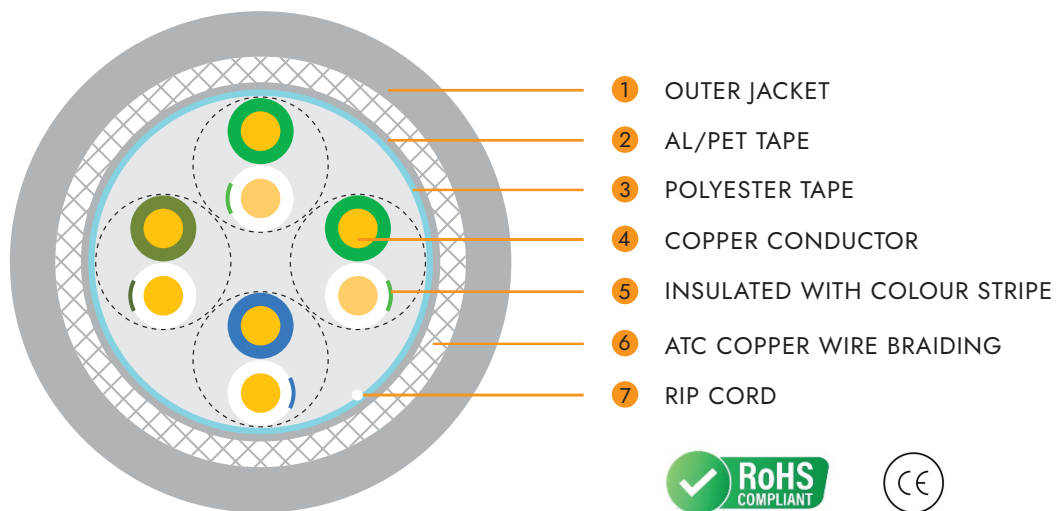
# CAT 5e SF/UTP 24AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 5e SF/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 100MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 100 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE variants
- Very good RFI/EMI interference attenuation to enable installation in high electrical noise location
- Electromagnetically Shielded / Dielectric



## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (24AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Shielding	: AL/PET Tape & Polyester Tape
Braiding	: Tinned Coated Copper Wire Braiding
Sheath Type	: FR- PVC/LSZH
Rip cord	: Polyester Rip cord
Sheath Color	: Grey (Other on request)
Cable Diameter	: $6.3 \pm 0.3$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 5e 24AWG. SF/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

## TRANSMISSION CHARACTERISTICS AT 20°C

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (db)	PSELFEXT (db)	ACR (db)	PSACR (db)
1	2	20	65.3	62.3	63.8	60.8	63.3	60.3
4	4.1	23	56.3	53.3	51.8	48.8	52.2	49.2
8	5.8	24.5	51.8	48.8	45.7	42.7	46	43
10	6.5	25	50.3	47.3	43.8	40.8	43.8	40.8
16	8.3	25	47.2	44.2	39.7	36.7	39	36
20	9.3	25	45.8	42.8	37.8	34.8	36.5	33.5
25	10.4	24.2	44.3	41.3	35.8	32.8	33.9	30.9
31.25	11.7	23.6	42.9	39.9	33.9	30.9	31.2	28.2
62.5	17	21.5	38.4	35.4	27.9	24.9	21.4	18.4
100	22	20.1	35.3	32.3	23.8	20.8	13.3	10.3

100M-Horizontal Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 100 N

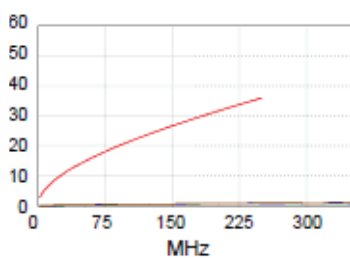
Bending Radius: > 8 X Cable Diameter at -20°C ± 1°C

Flame Rating: Comply with IEC 60332-1

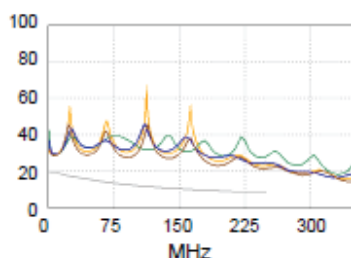
### PACKING

Reel (305/500/1000 Mtr)

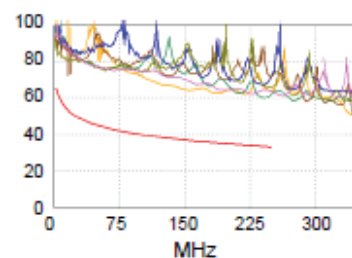
INSERTION LOSS



RETURN LOSS



NEXT



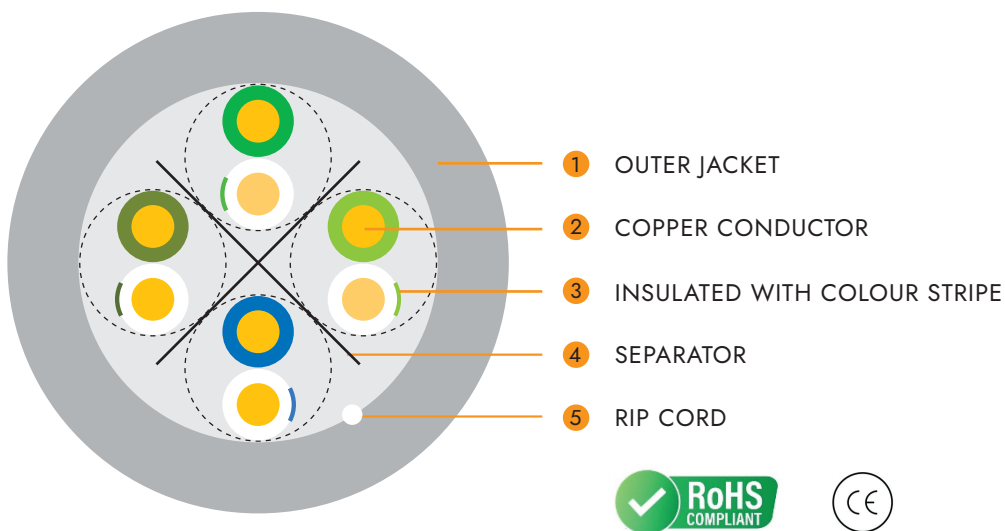
# CAT 6 U/UTP 24AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 6 U/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE variants

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (24AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $5.8 \pm 0.3$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 24AWG. U/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	1.9	19.1	65	62	64.2	61.2
4	3.5	21	64.1	61.8	52.1	49.1
8	5	21	59.4	57	46.1	43.1
10	5.5	21	57.8	55.5	44.2	41.2
16	7	20	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19	51.5	49.1	36.2	33.2
31.25	10	18.5	50	47.5	34.3	31.3
62.5	14.4	16	45.1	42.7	28.3	25.3
100	18.6	14	41.8	39.3	24.2	21.2
200	27.4	11	36.9	34.3	18.2	15.2
250	31.1	10	35.3	32.7	16.2	13.2

## 90M –Permanent Link Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 100 N

Bending Radius: > 4 X Cable Diameter at -20°C ± 1°C

Flame Rating: Comply with IEC 60332-1

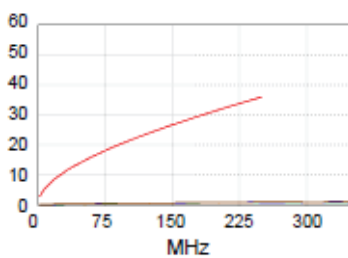
### PACKING

Reelex-I Box (305 Mtr)

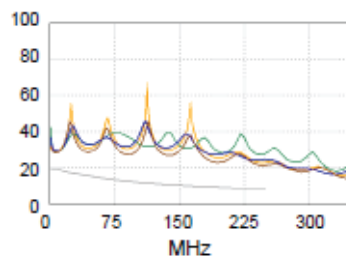
Reel in a Box (305 Mtr)

Reel (500/1000 Mtr)

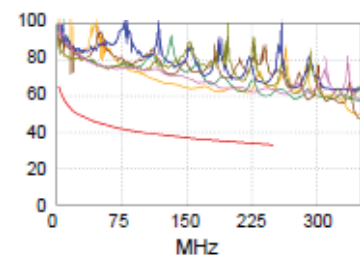
INSERTION LOSS



RETURN LOSS



NEXT





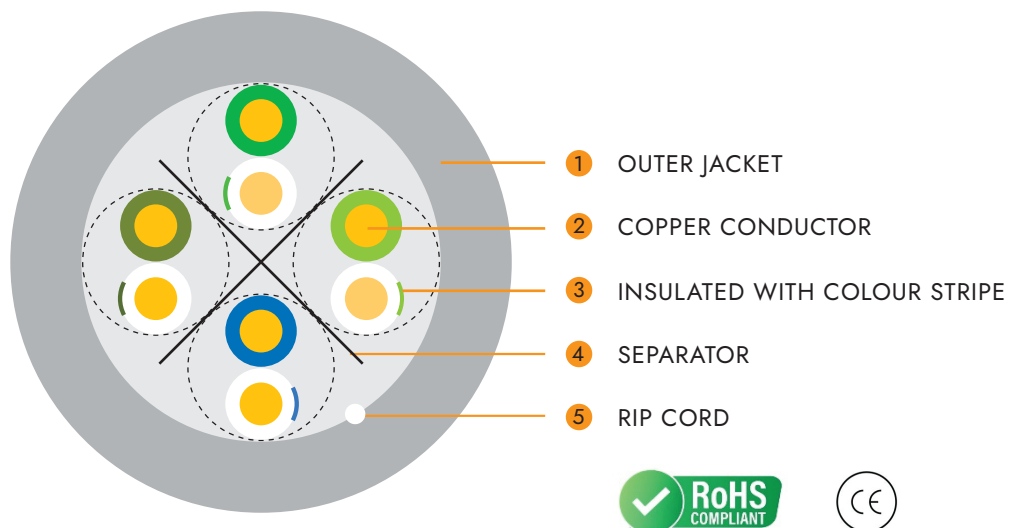
# CAT 6 U/UTP 23AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 6 U/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-Speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that therequirement for High-Speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE, PoE++ variants

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (23AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $5.8 \pm 0.3$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 23AWG U/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	1.9	19.1	65	62	64.2	61.2
4	3.5	21	64.1	61.8	52.1	49.1
8	5	21	59.4	57	46.1	43.1
10	5.5	21	57.8	55.5	44.2	41.2
16	7	20	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19	51.5	49.1	36.2	33.2
31.25	10	18.5	50	47.5	34.3	31.3
62.5	14.4	16	45.1	42.7	28.3	25.3
100	18.6	14	41.8	39.3	24.2	21.2
200	27.4	11	36.9	34.3	18.2	15.2
250	31.1	10	35.3	32.7	16.2	13.2

## 90M –Permanent Link Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 112 N

Bending Radius: > 4 X Cable Diameter at -20°C ± 1°C

Flame Rating: Comply with IEC 60332-1

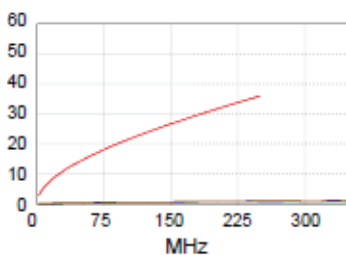
### PACKING

Reelex-I Box (305 Mtr)

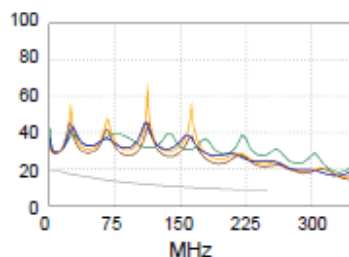
Reel in a Box (305 Mtr)

Reel (500/1000 Mtr)

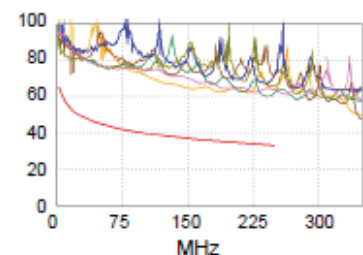
INSERTION LOSS



RETURN LOSS



NEXT



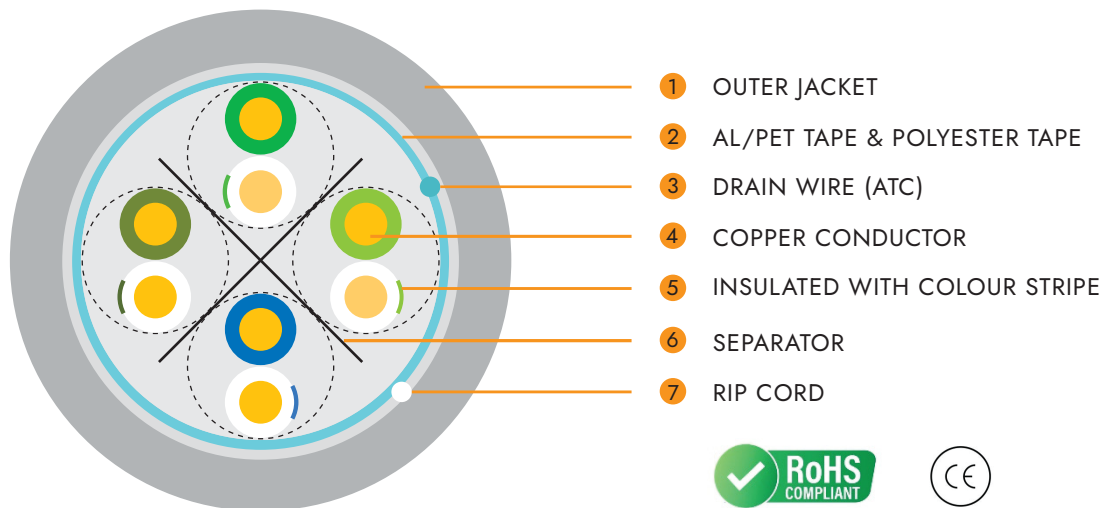
# CAT 6 F/UTP 24AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 6 F/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-Speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard.
- RoHS Compliant.
- Support Power over Ethernet: PoE variants.

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (24AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Shielding	: AL/PET Tape & Polyester Tape
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $6.5 \pm 0.5$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 24AWG. F/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801



FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	1.9	19.1	65	62	64.2	61.2
4	3.5	21	64.1	61.8	52.1	49.1
8	5	21	59.4	57	46.1	43.1
10	5.5	21	57.8	55.5	44.2	41.2
16	7	20	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19	51.5	49.1	36.2	33.2
31.25	10	18.5	50	47.5	34.3	31.3
62.5	14.4	16	45.1	42.7	28.3	25.3
100	18.6	14	41.8	39.3	24.2	21.2
200	27.4	11	36.9	34.3	18.2	15.2
250	31.1	10	35.3	32.7	16.2	13.2

## 90M –Permanent Link Cable compliance according to ANSI/TIA-568.2-Dy

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 112 N

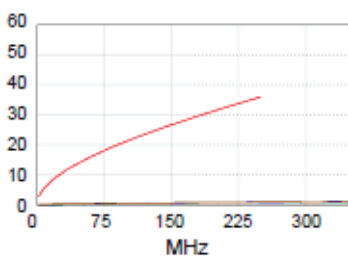
Bending Radius: > 8 X Cable Diameter at -20°C ± 1°C Flame

Rating: Comply with IEC 60332-1

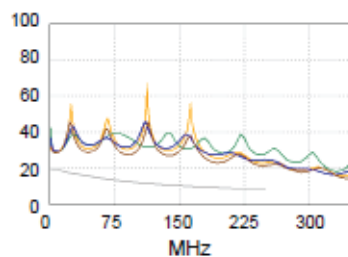
### PACKING

Reel (305/500/1000 Mtr)

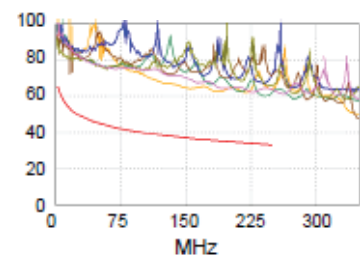
INSERTION LOSS



RETURN LOSS



NEXT



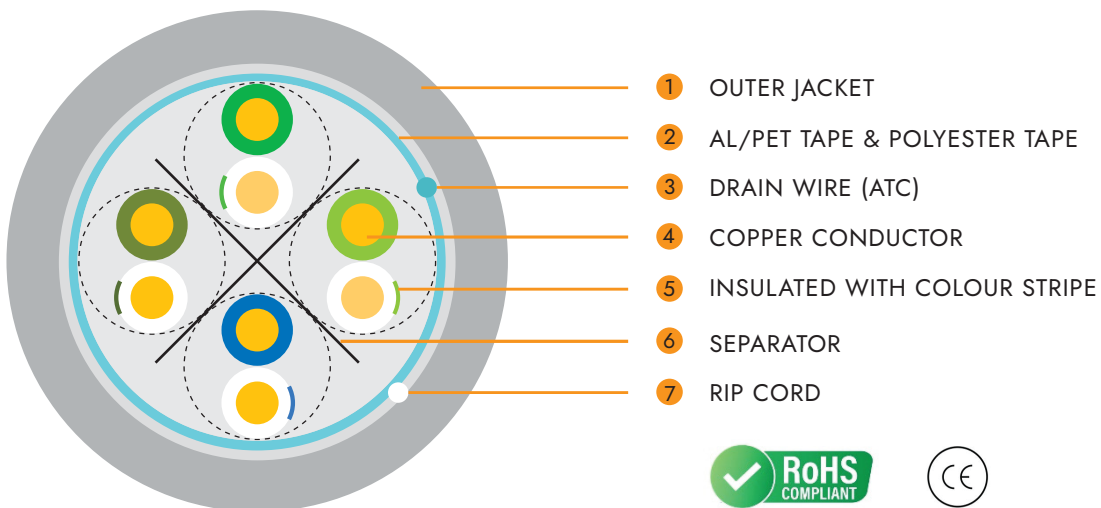
# CAT 6 F/UTP 23AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 6 F/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE variants

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (23AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Shielding	: AL/PET Tape & Polyester Tape
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $7.0 \pm 0.5$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 23AWG. F/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	1.9	19.1	65	62	64.2	61.2
4	3.5	21	64.1	61.8	52.1	49.1
8	5	21	59.4	57	46.1	43.1
10	5.5	21	57.8	55.5	44.2	41.2
16	7	20	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19	51.5	49.1	36.2	33.2
31.25	10	18.5	50	47.5	34.3	31.3
62.5	14.4	16	45.1	42.7	28.3	25.3
100	18.6	14	41.8	39.3	24.2	21.2
200	27.4	11	36.9	34.3	18.2	15.2
250	31.1	10	35.3	32.7	16.2	13.2

## 90M –Permanent Link Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 112 N

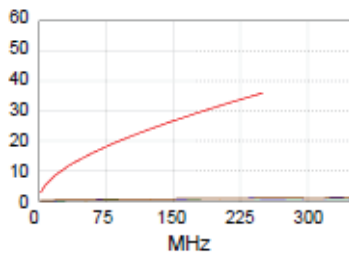
Bending Radius: > 8 X Cable Diameter at -20°C ± 1°C Flame

Rating: Comply with IEC 60332-1

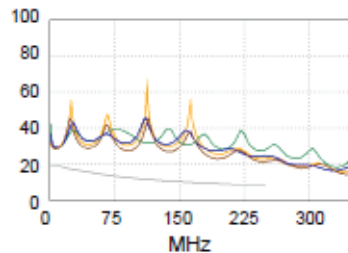
### PACKING

Reel (305/500/1000 Mtr)

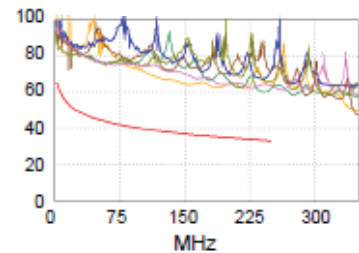
INSERTION LOSS



RETURN LOSS



NEXT



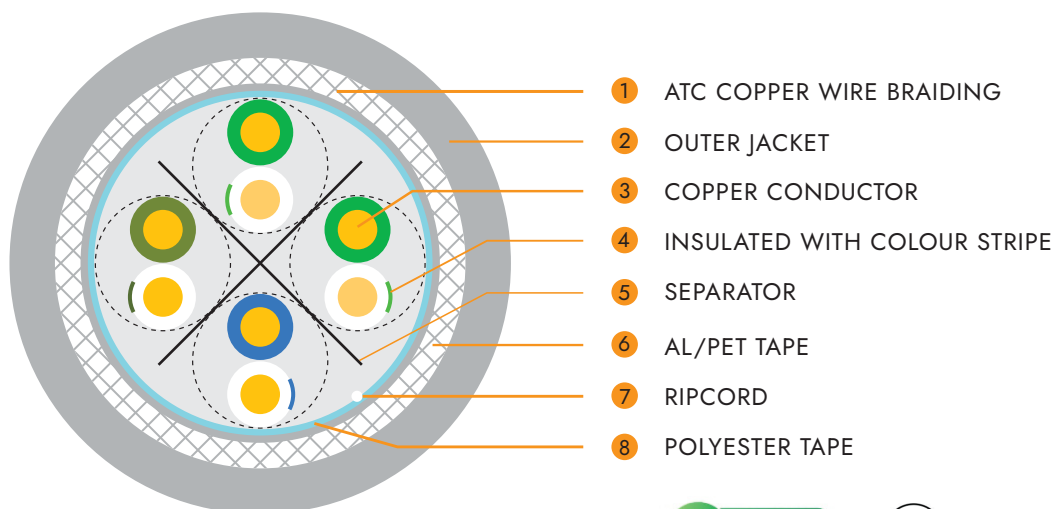
# CAT 6 SF/UTP 23AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 6 SF/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard.
- RoHS Compliant
- Support Power over Ethernet: PoE variants.
- Very good RFI/EMI interference attenuation to enable installation in high electrical noise locations
- Electromagnetically Shielded / Dielectric



## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (23AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4
Separator	: Cross Filler (PE)
Shielding	: AL/PET Tape & Polyester Tape
Braiding	: Tinned Coated Copper Wire Braiding
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $7.4 \pm 0.5$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 23AWG. SF/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:  $\leq 9.38 \Omega/100m$   
Mutual Capacitance:  $< 5.6nF/100m$   
Resistance Unbalance: 5% Max  
Capacitance Unbalance: 330pF/100m  
Delay Skew:  $< 45nS$

## COLOR CODING

Pair #1 White-Blue Stripe & Blue  
Pair #2 White-Orange Stipe & Orange  
Pair #3 White-Green Stripe & Green  
Pair #4 Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	1.9	19.1	65	62	64.2	61.2
4	3.5	21	64.1	61.8	52.1	49.1
8	5	21	59.4	57	46.1	43.1
10	5.5	21	57.8	55.5	44.2	41.2
16	7	20	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19	51.5	49.1	36.2	33.2
31.25	10	18.5	50	47.5	34.3	31.3
62.5	14.4	16	45.1	42.7	28.3	25.3
100	18.6	14	41.8	39.3	24.2	21.2
200	27.4	11	36.9	34.3	18.2	15.2
250	31.1	10	35.3	32.7	16.2	13.2

## 90M –Permanent Link Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 112 N

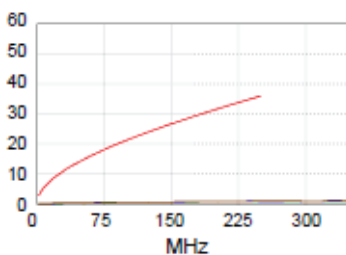
Bending Radius: > 8 X Cable Diameter at -20°C ± 1°C Flame

Rating: Comply with IEC 60332-1

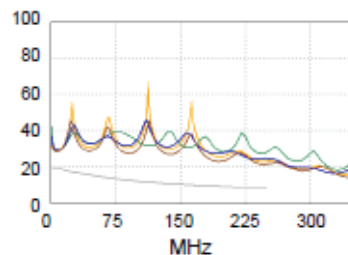
### PACKING

Reel (305/500/1000 Mtr)

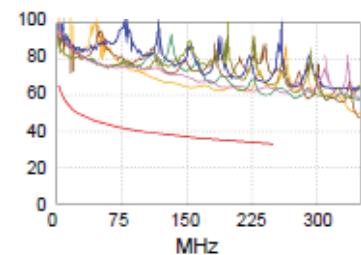
INSERTION LOSS



RETURN LOSS



NEXT



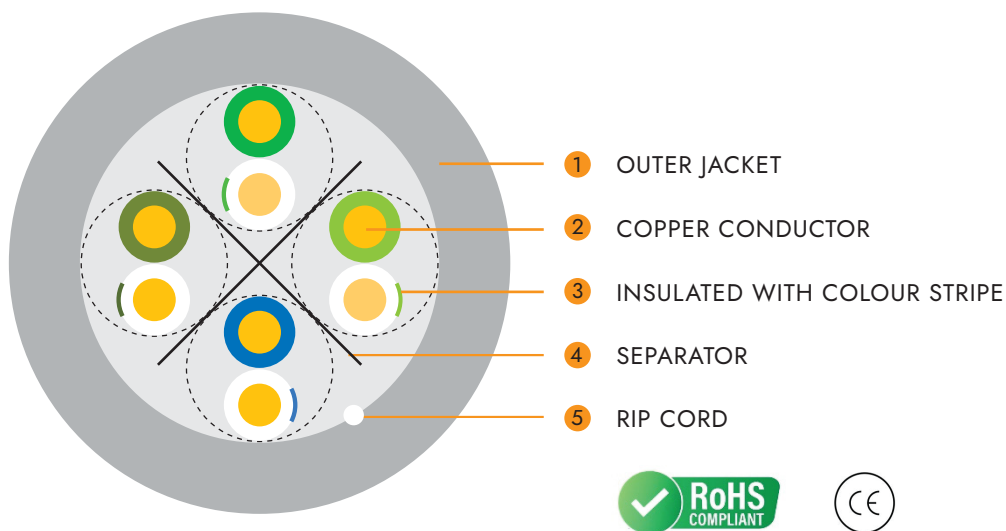
# CAT 6A U/UTP 23AWG Cable

## PRODUCT INFORMATION

APAR offers CAT 6A U/UTP which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (10GbaseT) standard. Operates at bandwidth up to 500MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for VoIP, Security Cameras, Voice, Video Conferencing, High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 500 MHz
- Supports Gigabit Ethernet (1000baseT) Standard.
- RoHS Compliant.
- Support Power over Ethernet: PoE, PoE++ variants.
- Enhanced Alien Cross Talk Performance

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (23AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $7.2 \pm 0.3$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6A. 23AWG U/UTP Year of Mfg. Cable ID XXX Mtr. Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance	: $\leq 9.38 \Omega/100m$
Mutual Capacitance	: $< 5.6nF/100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: $330pF/100m$
Delay Skew	: $< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	1.9	19.1	65	62	64.2	61.2
4	3.5	21	64.1	61.8	52.1	49.1
8	5	21	59.4	57	46.1	43.1
10	5.5	21	57.8	55.5	44.2	41.2
16	7	20	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19	51.5	49.1	36.2	33.2
31.25	10	18.5	50	47.5	34.3	31.3
62.5	14.4	16	45.1	42.7	28.3	25.3
100	18.6	14	41.8	39.3	24.2	21.2
200	27.4	11	36.9	34.3	18.2	15.2
250	31.1	10	35.3	32.7	16.2	13.2

## 90M – Permanent Link Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 112 N

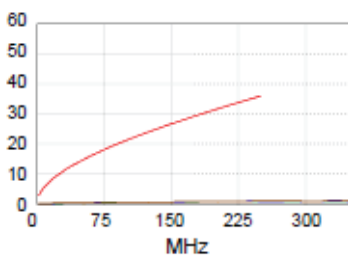
Bending Radius: > 4 X Cable Diameter at -20°C ± 1°C Flame

Rating: Comply with IEC 60332-1

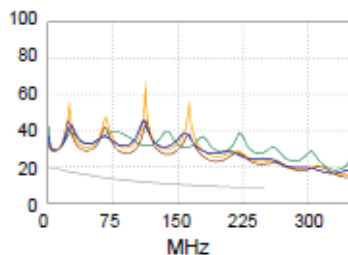
### PACKING

Reel (305/500/1000 Mtr)

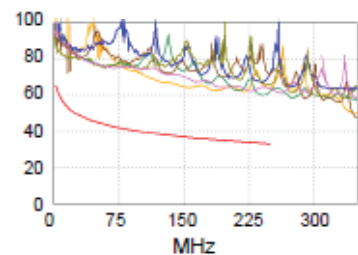
#### INSERTION LOSS



#### RETURN LOSS



#### NEXT



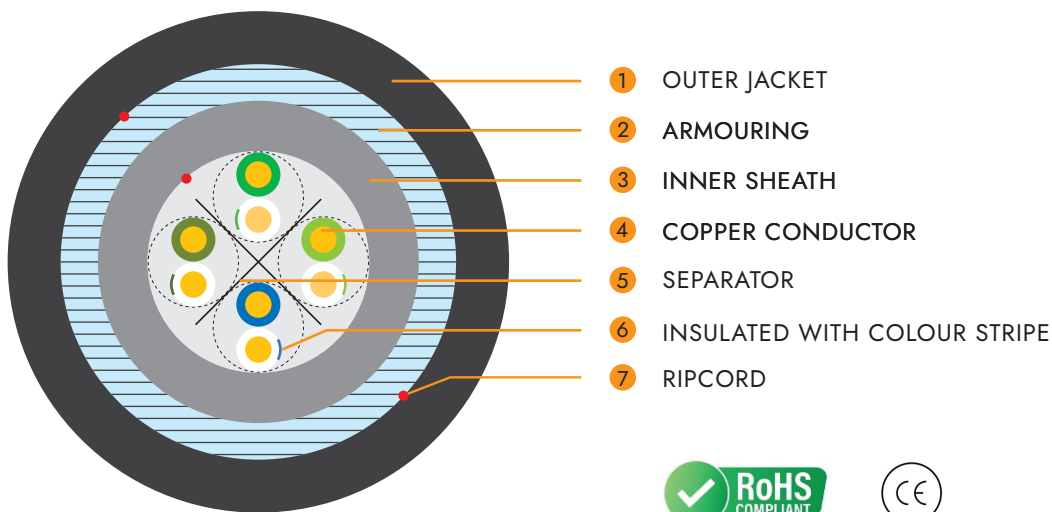
# CAT 6 U/UTP 23AWG Double Sheath ECCS Tape Armored Cable

## PRODUCT INFORMATION

APAR offers CAT 6 U/UTP DS ECCS Tape Armoured which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE variants

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (23AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Shielding	: AL/PET Tape & Polyester Tape
Rip cord	: Polyester Rip cord
Sheath Type	: FR- PVC/LSZH
Sheath Color	: Grey (Other on request)
Cable Diameter	: $7.0 \pm 0.5$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 23AWG. F/UTP Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:	$\leq 9.38 \Omega/100m$
Mutual Capacitance:	$< 5.6nF/100m$
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	$< 45nS$

## COLOR CODING

Pair #1	White-Blue Stripe & Blue
Pair #2	White-Orange Stipe & Orange
Pair #3	White-Green Stripe & Green
Pair #4	Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	3	19	65	62	63.3	60.3
4	4	19	63	60.5	51.2	48.2
8	5.7	19	58.4	55.6	45.2	42.2
10	6.3	19	56.6	54	43.3	40.3
16	8	18	53.2	50.6	39.2	36.2
20	8.9	17.5	51.6	49	37.2	34.2
25	10.1	17	50	47.3	35.3	32.3
31.25	11.4	16.5	48.4	45.7	33.4	30.4
62.5	16.5	14	43.4	40.6	27.3	24.3
100	21.3	12	39.9	37.1	23.3	20.3
200	31.5	9	34.8	31.9	17.2	14.2
250	35.9	8	33.1	30.2	15.3	12.3

## 90M –Permanent Link Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

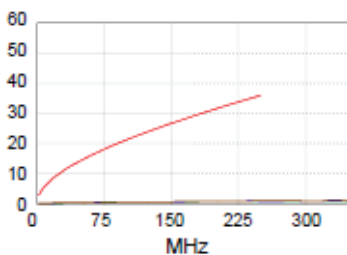
Pulling Force: 450 Kg

Bending Radius: > 20 X Cable Diameter at -20°C ± 1°C

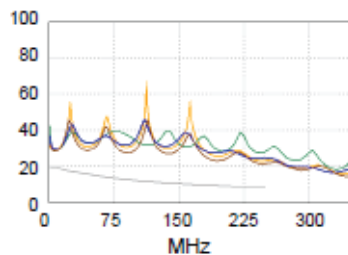
### PACKING

Reel (305/500/1000 Mtr)

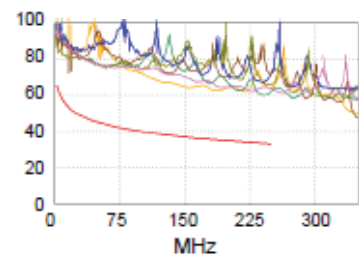
INSERTION LOSS



RETURN LOSS



NEXT





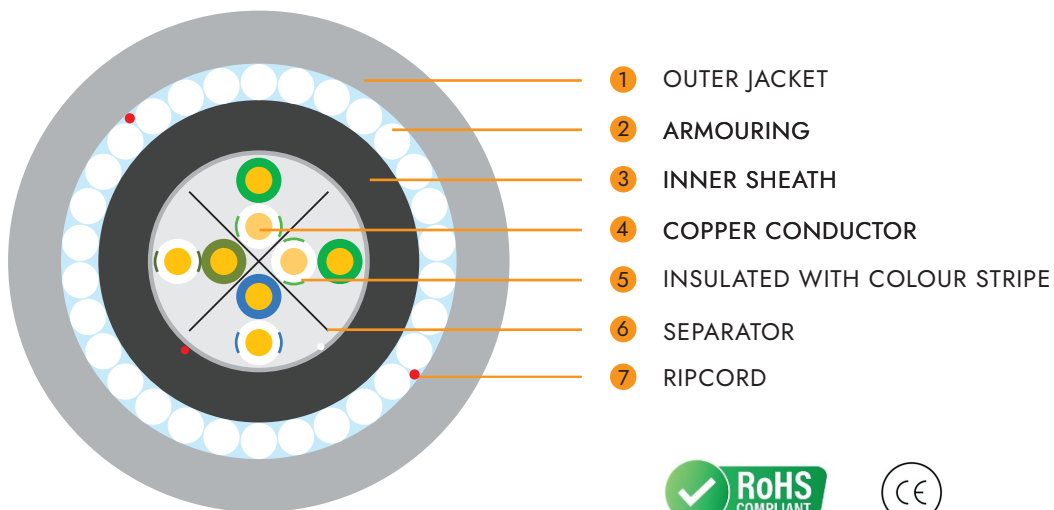
# CAT 6 U/UTP 23AWG Double Sheath Steel Wire Armored Cablet

## PRODUCT INFORMATION

APAR offers CAT 6 U/UTP DS SW Armoured which is widely used in areas of Enhanced performance Cable for Transmission of High-speed Data, Digital and Analog Voice & Video (RGB) Signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth up to 250MHz.

## PRODUCT APPLICATION

These cables ensure that the requirement for High-speed data, Digital and analogue voice and video (RGB) etc. are consistently met.



## PRODUCT FEATURES

- Bandwidth tested up to 250 MHz
- Supports Gigabit Ethernet (1000baseT) Standard
- RoHS Compliant
- Support Power over Ethernet: PoE variants

## COMPLIANCE STANDARDS

ANSI/TIA-568.2-D & ISO/IEC 11801 and Customer specifications

## CABLE CONSTRUCTION

Conductor	: ETP-grade Solid Bare Copper (23AWG)
Insulation	: High Density Polyethylene (HDPE)
Pairs	: 2 Insulated conductors twisted together to 4 Pair
Separator	: Cross Filler (PE)
Rip cord	: Rip cord
Inner Sheath	: FRLS- PVC (Grey)
Armoring	: G.I Steel Wire Armoring over Inner Sheath
Outer Sheath	: FRLS- PVC (Black)
Cable Diameter	: $11.5 \pm 1.0$ mm
Printing	: APAR TARANG SHAKTI INDIA CAT 6 23AWG. U/UTP DS SW ARMOURED Year of Mfg. Cable ID XXX Mtr Marking.

---

## ELECTRICAL PROPERTIES

Conductor Resistance:  $\leq 9.38 \Omega/100m$   
Mutual Capacitance:  $< 5.6nF/100m$   
Resistance Unbalance: 5% Max  
Capacitance Unbalance: 330pF/100m  
Delay Skew:  $< 45nS$

## COLOR CODING

Pair #1 White-Blue Stripe & Blue  
Pair #2 White-Orange Stipe & Orange  
Pair #3 White-Green Stripe & Green  
Pair #4 Brown-White & Brown

## CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568.2-D and ISO/IEC 11801

FREQUENCY MHz	IL (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACR (db)	PS ACR F (db)
1	3	19	65	62	63.3	60.3
4	4	19	63	60.5	51.2	48.2
8	5.7	19	58.4	55.6	45.2	42.2
10	6.3	19	56.6	54	43.3	40.3
16	8	18	53.2	50.6	39.2	36.2
20	9	17.5	51.6	49	37.2	34.2
25	10.1	17	50	47.3	35.3	32.3
31.25	11.4	16.5	48.4	45.7	33.4	30.4
62.5	16.5	14	43.4	40.6	27.3	24.3
100	21.3	12	39.9	37.1	23.3	20.3
200	31.5	9	34.8	31.9	17.2	14.2
250	35.9	8	33.1	30.2	15.3	12.3

## 70M –Channel Cable compliance according to ANSI/TIA-568.2-D

### MECHANICAL & OTHER PROPERTIES

Operating Temperature: -20° C to 70° C

Installation Temperature: -0° C to 50° C

Pulling Force: 450 Kg

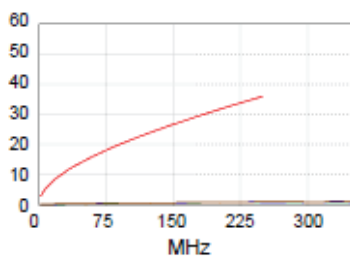
Bending Radius: > 20 X Cable Diameter at -20°C ± 1°C Flame

Rating: Comply with IEC 60332-1

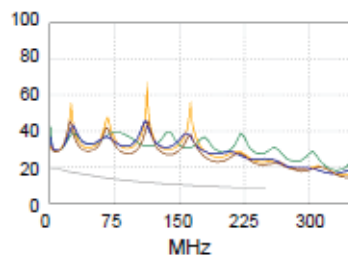
### PACKING

Reel (305/500/1000 Mtr)

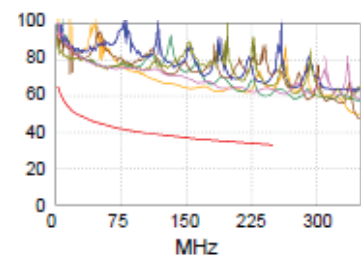
#### INSERTION LOSS



#### RETURN LOSS



#### NEXT





## CONTACT US

T: 022 2526 3400 / 6780 0400 | E: [info.telecom@apar.com](mailto:info.telecom@apar.com) | <https://apar.com/telecom-solutions>

 @apar-telecom-solutions

 @APARCableSolutions

 @aparindustrieslimited

 @APARIndustriesLimited

 @aparcablesolutions

[apar.com](http://apar.com)

