

salzer
LAN CABLES

LAN Cables

Wires for Life...



Salzer Wires and Cables division, an ISO 9001 & IATF certified company established in the year 2006, manufactures a wide range of Domestic and Industrial Wires & Cables for various applications. Salzer uses 99.997% pure ETP grade copper and high quality flame retardant raw material compounds for superior insulation.

Salzer LAN Cables facility has a Hi-tech manufacturing setup comprising of a fully automated and sophisticated production facility with German machinery.

Salzer is equipped with a full-fledged testing laboratory complying with stringent quality benchmarks as per UL, BIS & IEC standards which ensures consistent quality, highly durable and world class wires.

Salzer LAN Cables are designed to support Hi speed data transmission offering superior performance and reliability. Our LAN Cables comply and exceeds the requirements specified by TIA/ EIA -568.2-D standards.

Salzer also specializes in custom-built wires & cables and is a preferred supplier to many leading OEM's and Automotive component manufacturers around the world.



Features

- Versatile HDPE Insulation - (Solid, Skin-Foam-Skin)
- Insulation Physical foam technology and Max foaming 60% (Based on product)
- Online monitoring of Insulation for consistent quality
- High accuracy Lay Length and Low Noise level
- Cables supports upto 250 MHz Frequency
- ANSI / TIA colour code
- Compliant with ISO / IEC 11 801, EN 50173 and ANSI / TIA 568 standards
- Products Conforming to the new CPR regulations
- Automatic LF / HF measuring system - fitted with ultra-reliable relays for fastest & most consistent Quality.



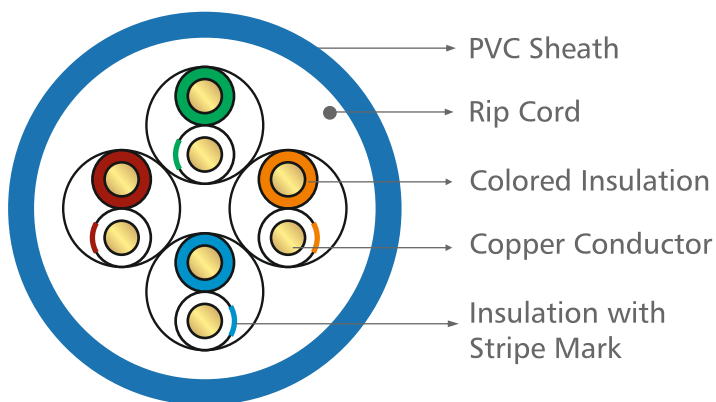
Range / Ordering Code

Category	AWG	Type	Sheath Color	Length / Packing
Cat 5E - 5E	24	Unshielded Cable with Untwisted pair - UUTP	Blue - BL	305 Mtrs Reelex - A
Cat 6 - S6	23	Foil shielded cable with Unshielded twisted pair - FUTP	Grey - GY	305 Mtrs Reel In - B
	24			
Cat 6A - 6A	23	Unshielded cable with Foil shielded twisted pair - UFTP	Orange - OR	100 Mtrs Coil - C
Cat 7 - S7	23	Shielded cable with Foil shielded twisted pair - SFTP	Green - GR	500 Mtrs Drum - D
Cat 7A - 7A	23	-	Black - BK	1000 Mtrs Drum - E

Example: 5E 24 UUTP BL A
S6 23 UFTP GY D


Wires for Life...

CAT 5E UTP CABLES



APPLICATION

Are 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 upto 100MHz. Our Cables complies to TIA / EIA-568.2-D and ISO / IEC 11801 Class ID

 Standard Colour of Sheath Blue RAL 5015



CONSTRUCTION



Conductor	: 24 AWG Solid bare Copper (4 pair)
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Sheath	: PVC
Cable Diameter	: 5.0 mm nominal
Printing	: Each meter printed with sequential Length Counter

ELECTRICAL PROPERTIES

Characteristic Impedance	: $100 \pm 15 \Omega$
Conductor Resistance	: $\leq 9.38 \Omega / 100m$
Mutual Capacitance	: $< 5.6nF / 100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: $< 45nS$
NVP %	: 69%
Operating Voltage	: 72V
Dielectric Strength	: 1.0Kv dc or 0.75KV for 1 min
Insulation Resistance (500V)	: $\geq 5000 M\Omega / KM @ 20^{\circ}C$

COLOUR CODE

Pair No.	Colour	
1-2	White-Orange Stripe and Orange	
4-5	White-Blue Stripe and Blue	

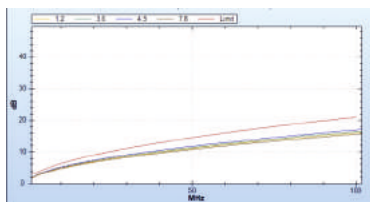
Pair No.	Colour	
3-6	White-Green Stripe and Green	
7-8	White-Brown Stripe and Brown	

CAT 5E UTP CABLES

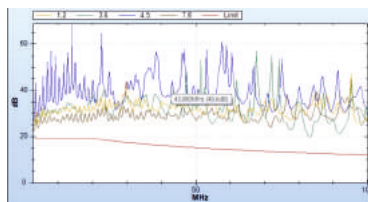
TRANSMISSION CHARACTERISTICS PER 100M

Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
1	2.0	20.0	65.3	62.3	63.8	60.8
4	4.1	23.0	56.3	53.3	51.8	48.8
8	5.8	24.5	51.8	48.8	45.7	42.7
10	6.5	25.0	50.3	47.3	43.8	40.8
16	8.2	25.0	47.2	44.2	39.7	36.7
20	9.3	25.0	45.8	42.8	37.8	34.8
25	10.4	24.3	44.3	41.3	35.8	32.8
31.25	11.7	23.6	42.9	39.9	33.9	30.9
62.5	17.0	21.5	38.4	35.4	27.9	24.9
100	22.0	20.1	35.3	32.3	23.8	20.8

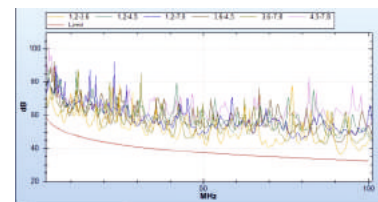
Insertion Loss



Return Loss



NEXT



MECHANICAL PROPERTIES

Pulling Force : 9 Kg

Operating Temperature : -20° C to +70° C

Storage Temperature Range : 0° C to +50° C

Minimum Bend radius = 4 X Cable Diameter at -20 °C ± 1 °C

CONNECTION SYSTEM

Compatible with all common systems according to

TIA / EIA-568.2-D and ISO / IEC 11801 Class D

PACKING

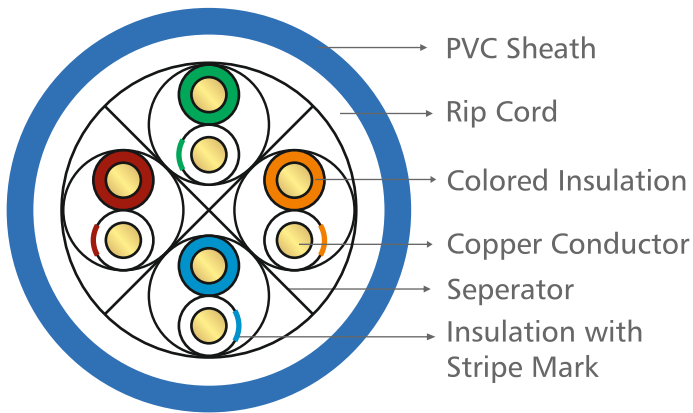
Tangle & Twist Free Coil (305 Mtr)

Reel in a Box (305 Mtr)

Reel (500/1000 Mtr)

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CAT 6 UTP CABLES



APPLICATION

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 Standard Colour of Sheath Blue RAL 5015



CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper (4 pair)
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Sheath	: FR.PVC Insulation thickness 0.2mm nominal
Cable Diameter	: 6.1 mm nominal
Cable wt per Box	: 13.6 Kgs nominal
Printing	: Each meter printed with sequential Length Counter

ELECTRICAL PROPERTIES

Characteristic Impedance	: $100 \pm 15\Omega$
Conductor Resistance	: $\leq 9.38 \Omega / 100m$
Mutual Capacitance	: $< 5.6nF/100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: $< 45nS$
NVP %	: 69%
Operating Voltage	: 72V
Dielectric Strength	: 1.0Kv dc or 0.75KV for 1 min
Insulation Resistance (500V)	: $\geq 5000 M\Omega/KM @20^{\circ}C$

COLOUR CODE

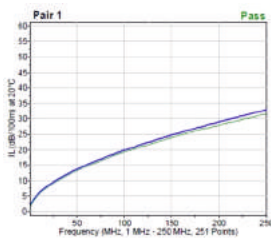
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CAT 6 UTP CABLES

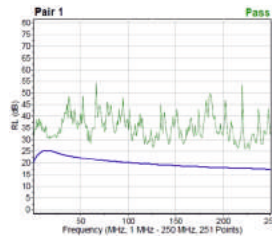
TRANSMISSION CHARACTERISTICS PER 100M

Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
1	2.0	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
8	5.3	24.5	60.8	58.8	49.7	46.7
10	6.0	25.0	59.3	57.3	47.8	44.8
16	7.6	25.0	56.2	54.2	43.7	40.7
20	8.5	25.0	54.8	52.8	41.8	38.8
25	9.5	24.3	53.3	51.3	39.8	36.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9
62.5	15.4	21.5	47.4	45.4	31.9	28.9
100	19.8	20.1	44.3	42.3	27.8	24.8
200	29.0	18.0	39.8	37.8	21.8	18.8
250	32.8	17.3	38.3	36.3	19.8	16.8

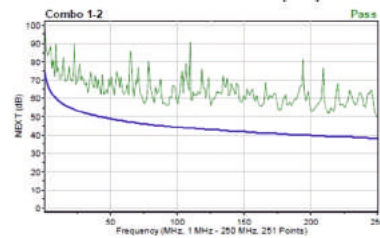
Insertion Loss



Return Loss



NEXT



MECHANICAL PROPERTIES

Pulling Force : 11.5 Kg

Operating Temperature : -20° C to +70° C

Storage Temperature Range : 0° C to +50° C

Minimum Bend radius = 4 X Cable Diameter, at -20° C ± 1° C

CONNECTION SYSTEM

Compatible with all common systems according to

TIA / EIA-568.2-D and ISO / IEC 11801 Class E

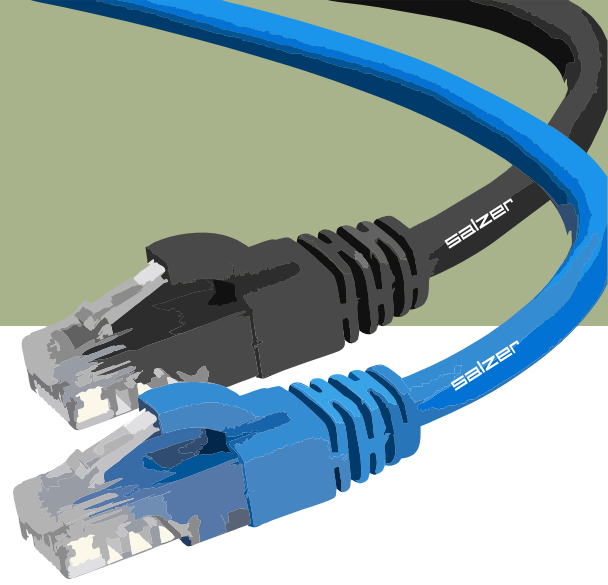
PACKING

Tangle & Twist Free Coil (305 Mtr)

Reel in a Box (305 Mtr)

Reel (500/1000 Mtr)

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ISO 9001 / 14001 / 18001 | IATF CERTIFIED

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