



## Copper LAN Patch Cord

High-speed LAN Patch Cord offers up to 10 Gbps over up to 100 meters of copper cabling. KOC provide CAT5~CAT7 copper cable assembly with cost-effective solution. The products are widely used for cloud computing centers, large data rooms, offices, residential areas, factory building and other buildings integrated wiring system, industrial communication, process automation, high-speed rail, subway, ship applications.

[www.koc.com.cn](http://www.koc.com.cn)

# CATEGORY 5E UTP Patch Cords

## Introduction

Category 5E UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Guaranteed performance to 100Mhz and supplied with ETL, UL Verifiaction to ANSI/-TIA-568-C.2, ISO/IEC 11801 & EN50173 International Standards.

## Key Features

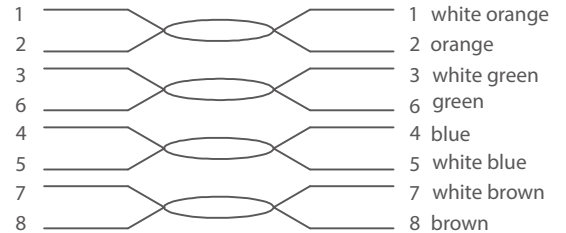
- RJ45, 8P8C, 2 FORK 3μ" Gold Plated Contacts
- 100% Factory Tested
- Mold Boot Cable Assemblies
- Available Colours: Blue, Orange, Black, White, Red, Green, Purple, Gray, Yellow
- Available Sizes: 0.25m, 0.5m, 1m, 1.5m, 2m, 3m, 5m, 10m, up to 45m



## Technical Specifications

Item	Conditions
Construction Material	24AWG X 4Pair, 100% Bare Copper
Insulation Material	HDPE
Wire Gauge	24 AWG (7x0.18mm) stranded UTP
Insulation Diameter	0.85mm±0.01mm
Cross Filler	NA
Jacket Material	70°C 55P PVC
Jacket Thickness	Max AVG:0.55mm
Jacket Width	Max AVG:5.0mm
Plug	3μ" Gold Plated Contact
Boot	PVC Molded Boots
Wire diagram	T568B
Standard	ANSI EIA/TIA 568-C.2
ISO 11801	Class D

## TIA 568B

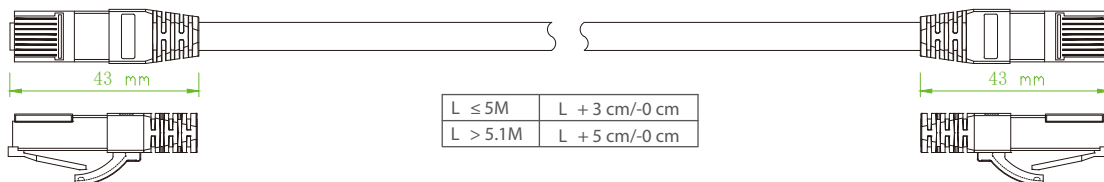


## Ordering Information

Part NO.	Conditions
KC5EUU24MBBL01	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 1FT
KC5EUU24MBBL02	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 2FT
KC5EUU24MBBL03	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 3FT
KC5EUU24MBBL05	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 5FT
KC5EUU24MBBL07	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 7FT
KC5EUU24MBBL10	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 10FT
KC5EUU24MBBL15	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 15FT
KC5EUU24MBBL20	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 20FT
KC5EUU24MBBL25	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 25FT
KC5EUU24MBBL50	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 50FT
KC5EUU24MBBL75	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 75FT
KC5EUU24MBBL100	Patch Cord Cat5E U/UTP 24AWG Molded Boot T568B Blue 100FT



\*Can be made available in different lengths



# CATEGORY 6 UTP Patch Cords

## Introduction

Category 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Guaranteed performance to 500Mhz and supplied with ETL, UL Verification to ANSI/-TIA-568-C.2, ISO/IEC 11801 & EN50173 International Standards.

## Key Features

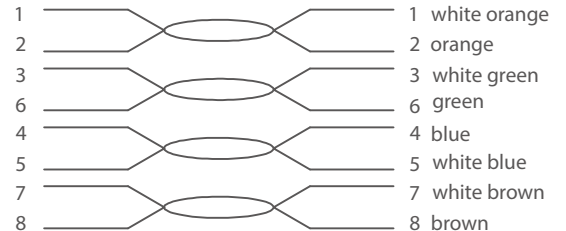
- RJ45, 8P8C, 2 FORK 3μ" Gold Plated Contacts
- 100% Factory Tested
- Mold Boot Cable Assemblies
- Available Colours: Blue, Orange, Black, White, Red, Green, Purple, Gray, Yellow
- Available Sizes: 0.25m, 0.5m, 1m, 1.5m, 2m, 3m, 5m, 10m, up to 45m



## Technical Specifications

Item	Conditions
Construction Material	24AWG X 4Pair, 100% Bare Copper
Insulation Material	HDPE
Wire Gauge	24 AWG (7x0.18mm) stranded UTP
Insulation Diameter	0.97mm±0.01mm
Cross Filler	Transparent 4.3*0.45mm
Jacket Material	70°C 55P PVC
Jacket Thickness	Max AVG:0.55mm
Jacket Width	Max AVG:6.0mm
Plug	3μ" Gold Plated Contact
Boot	PVC Molded Boots
Wire diagram	T568B
Standard	ANSI EIA/TIA 568-C.2
ISO 11801	Class E

## TIA 568B

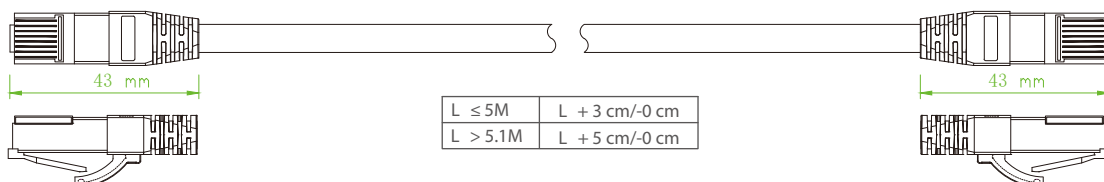


## Ordering Information

Part NO.	Conditions
KC6UU24MBBL01	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 1FT
KC6UU24MBBL02	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 2FT
KC6UU24MBBL03	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 3FT
KC6UU24MBBL05	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 5FT
KC6UU24MBBL07	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 7FT
KC6UU24MBBL10	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 10FT
KC6UU24MBBL15	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 15FT
KC6UU24MBBL20	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 20FT
KC6UU24MBBL25	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 25FT
KC6UU24MBBL50	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 50FT
KC6UU24MBBL75	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 75FT
KC6UU24MBBL100	Patch Cord Cat6 U/UTP 24AWG Molded Boot T568B Blue 100FT



\*Can be made available in different lengths





# CATEGORY 6A UTP Patch Cords

## Introduction

Category 6A UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Guaranteed performance to 500Mhz and supplied with ETL, UL Verifiaction to ANSI/-TIA-568-C.2, ISO/IEC 11801 & EN50173 International Standards.

## Key Features

- RJ45, 8P8C, 2 FORK 3μ" Gold Plated Contacts
- 100% Factory Tested
- Mold Boot Cable Assemblies
- Available Colours: Blue, Orange, Black, White, Red, Green, Purple, Gray, Yellow
- Available Sizes: 0.25m, 0.5m, 1m, 1.5m, 2m, 3m, 5m, 10m, up to 45m

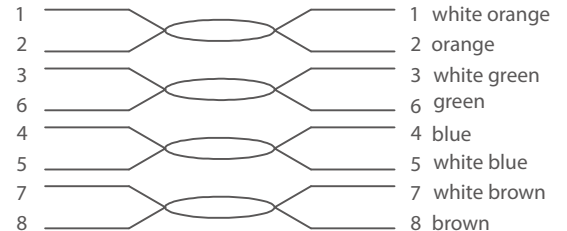


## Technical Specifications

Item	Conditions
Construction Material	24AWG X 4Pair, 100% Bare Copper
Insulation Material	HDPE
Wire Gauge	24 AWG (7x0.2mm) stranded UTP
Insulation Diameter	0.97mm±0.01mm
Cross Filler	Transparent 4.3*0.45mm
Jacket Material	70°C 55P PVC
Jacket Thickness	Max AVG:0.55mm
Jacket Width	Max AVG:6.2mm
Plug	3μ" Gold Plated Contact
Boot	PVC Molded Boots
Wire diagram	T568B
Standard	ANSI EIA/TIA 568-C.2
ISO 11801	Class E <sub>A</sub>



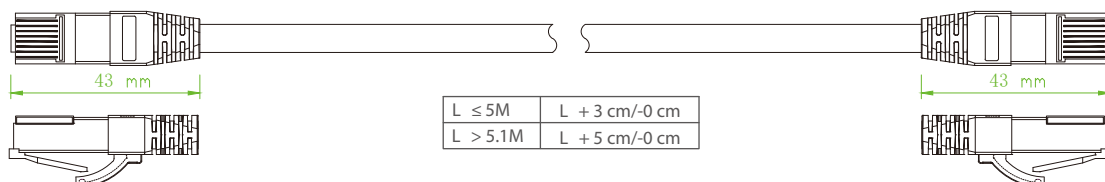
## TIA 568B



## Ordering Information

Part NO.	Conditions
KC6AUU24MBBL01	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 1FT
KC6AUU24MBBL02	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 2FT
KC6AUU24MBBL03	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 3FT
KC6AUU24MBBL05	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 5FT
KC6AUU24MBBL07	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 7FT
KC6AUU24MBBL10	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 10FT
KC6AUU24MBBL15	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 15FT
KC6AUU24MBBL20	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 20FT
KC6AUU24MBBL25	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 25FT
KC6AUU24MBBL50	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 50FT
KC6AUU24MBBL75	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 75FT
KC6AUU24MBBL100	Patch Cord Cat6A U/UTP 24AWG Molded Boot T568B Blue 100FT

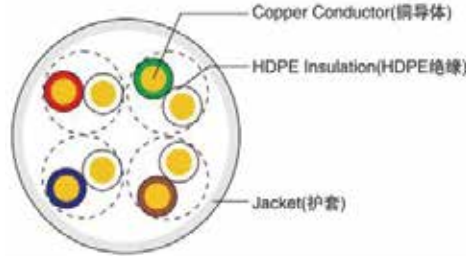
\*Can be made available in different lengths



# CAT5E UTP 24AWG bulk cable

REF:CAT5E-UTP-24AWG CM PVC	TECHNICAL DATA SHEET
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100 Ω CAT5E UTP 4pairs cable category5 - 350MHz - CM PVC sheath



## CABLE DESCRIPTION

1-CONDUCTOR	PARAMETER	UNIT	VALUE
TYPE:Stranded-Bare copper	Max.linear tesistance.	Ω/km	≤115
DIAMETER: 7x0.18mm±0.01mm	Mutual capacity(nom.)	pF/m	56
AWG: 24	Unbalance capacity max (p/p at 1 KHz)	pF/km	1600
<b>2-INSULATION</b>	Characteristic impedance (1 at 100 MHz)	Ω	100±15
TYPE: PE	VELOCITY OF PROPAGATION (f> 1MHz)	%of c	66
DIAMETER:0.88mm±0.05mm	<b>Marking</b>		
<b>3-SYNTHETICAL SEPARTION FOIL:</b>	UTP CAT.5E 350MHZ PATCH ISO/IEC 11801 & EN 50288 & ANSI/TIA-568-C.2 3P CONFORM FOR GIGABIT ETHERNET ROHS COMPLIANT (空2cm) 24AWG x 4P TYPE CM (UL) E153116 TF xxxx FT		
NO			
<b>4-DRAIN WIRE: NO</b>			
<b>5-SHIELDING: NO</b>			
<b>6-RIP CORD</b>			
NO			
<b>7-OUTER JACKET</b>			
TYPE: CM PVC			
COLOUR:			
THICKNESS:0.53mm±0.05mm			
EXTERNAL DIAMETER: 5.1mm±0.3mm			

## ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Return loss(dB)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	20	2	62.3	62	60.8	61
4	23	4.1	53.3	53	48.8	49
10	25	6.5	47.3	47	40.8	41
16	25	8.2	44.2	44	36.7	37
20	25	9.3	42	43	34.8	35
25	24.3	10.4	41.3	41	32.8	33
31.25	23.6	11.7	39.9	40	30.9	31
62.5	21.5	17	35.4	35	24.9	25
100	20.1	22	32.3	32	20.8	21
160	19	26	41	39	24	21
200	18	29	40	38	22	19
250	17	32.8	38	36	20	17
300	16.8	36.4	37.2	35.2	18.2	15.2
350	16.3	39.8	36.2	34.2	16.9	13.9

## OTHER CHARACTERISTICS

MINIMUM BENDING RADIUS:  
 WHIGHT: kg/km  
 FIRE BEHAVIOUR:  
 PACKING:

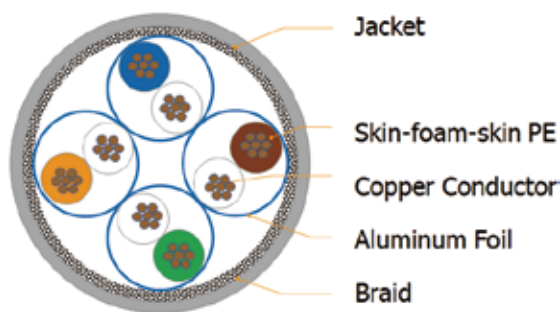
公司LOGO

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 Prepared by:

Rev.:0  
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# S/FTP CAT.6 4 Pairs 7×0.123mm LAN Cable

Test Standard		ANSI/TIA-568-C.2	
Construction			
Conductor	Material	7*0.122( ≥0.121)	
	Diameter ( mm )	≥0.366	
Insulation	Material	Skin-foam-skin PE	
	Diameter ( mm )	0.85±0.03	
Core color	1.white-blue/blue	2.white-orange/orang	
	3.white-green/green	4.white-brown/brown	
Polyester tap	No	Aluminum foil	Yes
Braid	Yes	Coverage	≥45%
Sheath	Material	LSZH	
	Thickness ( mm )	0.5±0.50	
	Diameter ( mm )	5.4±0.30	
	Color	Grey	
Surface printing	Letter high	3.0 ± 0.5mm	
	Color	Black	
	Print error & Space	≤± 0.5% , 1m	



### Electrical Properties

The maximum length to pass test fluke channel and patch cord

### Description

Rated Temperature (°C)	75
Application	Telephone and other communication circuits such as voice, data, and audio for on-premise customer system

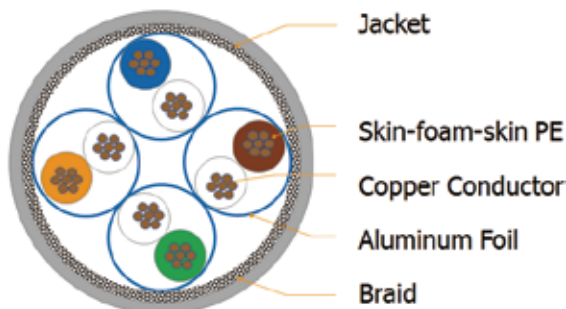
### Mechanical Characteristics

Maximum Tensile Strength of Jacket (kgf/mm <sup>2</sup> )	1.05
Elongation(%)	≧ 100

The product is compliant with the limits of RoHS Directive 2011/65/EU

# S/FTP CAT.6A 4 Pairs 7×0.13mm LAN Cable

Test Standard		ANSI/TIA-568-C.2	
<b>Construction</b>			
Conductor	Material	7*0.13(≥0.128)	
	Diameter (mm)	0.39±0.05	
Insulation	Material	Skin-foam-skin PE	
	Diameter (mm)	0.83±0.03	
Core color	1.white-blue/blue	2.white-orange/orang	
	3.white-green/green	4.white-brown/brown	
Polyester tap	No	Aluminum foil	Yes
Braid	Yes	Coverage	≥45%
Sheath	Material	LSZH	
	Thickness (mm)	0.6±0.50	
	Diameter (mm)	5.3±0.30	
	Color	Grey	
Surface printing	Letter high	3.0 ± 0.5mm	
	Color	Black	
	Print error & Space	≤± 0.5% , 1m	
<b>Electrical Properties</b>			
The maximum length to pass test fluke channel and patch cord			
<b>Description</b>			
Rated Temperature (°C)		75	
Application		Telephone and other communication circuits such as voice, data, and audio for on-premise customer system	
<b>Mechanical Characteristics</b>			
Maximum Tensile Strength of Jacket (kgf/mm2)		1.05	
Elongation(%)		≧ 100	
The product is compliant with the limits of RoHS Directive 2011/65/EU			



# SFTP Patch Cord Testing Report

Item	CAT 6A,SFTP,1.5M	CAT 6A,SFTP,5M	CAT 6A,SFTP,2M	CAT 6,SFTP,5M	CAT 6,SFTP,1.5M
Customer	/	/	/	DIGITUS	DIGITUS
Color	GREY	GREY	GREY	GREY	GREY
OD	5.2~5.53 mm	5.2~5.6 mm	5.2~5.6 mm	5.3~5.6 mm	5.3~5.6 mm
Thick ness	0.48~0.57 mm	0.48~0.57 mm	0.48~0.57 mm	0.45~0.55 mm	0.45~0.55 mm
Material	LSZH no fire test	LSZH no fire test	LSZH no fire test	LSZH no fire test	LSZH no fire test
Braid	yes 68*0.11 44.2%		yes 5*12*0.11 44.2%		
Aluminum foil	4 pairs * 2 / 9*0.035	4 pairs * 2 / 9*0.035	4 pairs * 2 / 9*0.035	4 pairs * 2 / 9*0.025	4 pairs * 2 / 9*0.025
Inner OD	0.83mm~0.87mm*8	0.83mm~0.87mm*8	0.83mm~0.87mm*8	0.84mm~0.87mm*8	0.84mm~0.87mm*8
Material	HDPE	HDPE	HDPE	HDPE	HDPE
Cross	NO	NO	NO	NO	NO
Copper	BC 7*0.13 mm	BC 7*0.13 mm	BC 7*0.13 mm	BC 7*0.12 mm	BC 7*0.12 mm
FLUKE CHANEL	OK	OK	OK	OK	OK
FLUKE PATCHCORD	OK	OK	OK	OK	OK

## Package



S/FTP CAT6A 4P PATCH LSOH CONFORM TO ANSI/TIA-568-C.2



S/FTP CAT6A 4P PATCH LSOH CONFORM TO ANSI/TIA-568-C.2



# Packing Information

## CATEGORY 5E Patch Cords

Lenght	Pcs/Box	With Boot			No Boot			Plastic Bag 1 PCS(CM)	Boxes Sizes(CM)
		1 PCS(Kg)	10 PCS(Kg)	1 Boxes(Kg)	1 PCS(Kg)	10 PCS(Kg)	1 Boxes(Kg)		
6 Inch	500	0.016	0.16	8.70	0.011	0.13	7.2	15.5 x 20.5	40 X 40 X 20
18inch	350	0.02	0.23	9.0				15.5 x 20.5	40 X 40 X 20
1 Ft	450	0.02	0.19	9.40	0.02	0.17	8.4	15.5 x 20.5	40 X 40 X 20
2 Ft	250	0.03	0.30	8.20	0.03	0.26	7.1	15.5 x 20.5	40 X 40 X 20
3 Ft	220	0.04	0.38	8.90	0.033	0.34	8.3	15.5 x 20.5	40 X 40 X 20
4 Ft	200	0.05	0.46	10.10	0.04	0.43	9.3	15.5 x 20.5	40 X 40 X 20
5 Ft	180	0.05	0.54	10.50	0.05	0.51	9.9	15.5 x 20.5	40 X 40 X 20
6 Ft	140	0.06	0.65	9.70	0.06	0.58	9.0	15.5 x 20.5	40 X 40 X 20
7 Ft	130	0.07	0.73	10.20	0.06	0.67	9.6	15.5 x 20.5	40 X 40 X 20
8 Ft	120				0.09	0.95	8.5	17.8 x 22.8	40 X 40 X 20
9 Ft	100	0.089	0.89	9.70				17.8 x 22.8	41 X 40 X 20
10 Ft	80	0.10	1.02	8.90	0.09	0.94	8.5	17.8 x 22.8	40 X 40 X 20
12 Ft	80	0.12	1.18	10.20	1.10	1.13	8.7	17.8 x 22.8	41 X 40 X 20
14 Ft	60	0.13	1.33	8.70	0.13	1.27	8.4	17.8 x 22.8	42 X 40 X 20
15 Ft	60	0.14	1.43	9.30	0.13	1.40	9.0	17.8 x 22.8	43 X 40 X 20
20 Ft	40	0.18	1.88	8.30				20.5 x 25.5	40 X 40 X 20
25 Ft	70	0.23	X	16.90	0.22	X	16.2	20.5 x 25.5	40 X 40 X 27
30 Ft	60	0.26	X	16.70	0.25	X	16.5	20.5 x 25.5	40 X 40 X 27
35 Ft	50	0.31	X	16.30	0.30	X	16.0	20.5 x 25.5	40 X 40 X 27
40 Ft	48	0.35	X	17.60	0.34	X	17.6	20.5 x 25.5	40 X 40 X 27
45 Ft	40							20.5 x 25.5	40 X 40 X 27
50 Ft	35	0.43	X	16.00	0.43	X	16.1	20.5 x 25.5	40 X 40 X 27

## CATEGORY 6 Patch Cords

Lenght	Pcs/Box	With Boot			No Boot			Plastic Bag 1 PCS(CM)	Boxes Sizes(CM)
		1 PCS(Kg)	10 PCS(Kg)	1 Boxes(Kg)	1 PCS(Kg)	10 PCS(Kg)	1 Boxes(Kg)		
6 Inch	500	0.02	0.16	8.6				15.5 x 20.5	40 x 40 x 20
18 Inch	300	0.03	0.26	8.4				15.5 x 20.5	40 x 40 x 20
1 Ft	400	0.02	0.2	9.0	0.02	0.17	7.5	15.5 x 20.5	40 x 40 x 20
2 Ft	250	0.03	0.31	8.5	0.03	0.28	7.6	15.5 x 20.5	40 x 40 x 20
3 Ft	200	0.04	0.41	8.9	0.04	0.38	8.4	15.5 x 20.5	40 x 40 x 20
4 Ft	160	0.05	0.51	8.9	0.05	0.48	8.4	15.5 x 20.5	40 x 40 x 20
5 Ft	150	0.06	0.61	9.8	0.06	0.58	9.4	15.5 x 20.5	40 x 40 x 20
6 Ft	120	0.07	0.71	9.3	0.07	0.66	8.8	15.5 x 20.5	40 x 40 x 20
7 Ft	100	0.08	0.81	8.8	0.08	0.78	8.6	15.5 x 20.5	40 x 40 x 20
8 Ft	90	0.09	0.92	9.0				17.8 x 22.8	40 x 40 x 20
9 Ft	90	0.10	1.02	9.9				17.8 x 22.8	40 x 40 x 20
10 Ft	80	0.11	1.12	9.7	0.11	1.10	9.5	17.8 x 22.8	40 x 40 x 20
12 Ft	60							17.8 x 22.8	40 x 40 x 20
14 Ft	50	0.15	15.3	8.4	0.15	1.5	8.2	17.8 x 22.8	40 x 40 x 20
15 Ft	50	0.16	1.62	8.8	0.16	1.58	8.6	17.8 x 22.8	40 x 40 x 20
20 Ft	40	0.21	2.14	9.3	0.21	2.13	9.1	20.5 X 25.5	40 x 40 x 20
25 Ft	48	0.26	X	13.6	0.26	X	13.3	20.5 X 25.5	40 x 40 x 27
30 Ft	46							20.5 X 25.5	40 x 40 x 27
35 Ft								20.5 X 25.5	40 x 40 x 27
40 Ft	36	0.51	X	16.1				20.5 X 25.5	40 x 40 x 27
45 Ft	32							20.5 X 25.5	40 x 40 x 27
50 Ft	30	0.51	X	16.2	0.51	X	16.2	25.5 X 30.5	40 x 40 x 27
60 Ft								25.5 X 30.5	40 x 40 x 27
75 Ft	18	0.75	X	14.4				25.5 X 30.5	40 x 40 x 27
100 Ft	14	1.01	X	15.2	1.00	X	15.0	25.5 X 30.5	40 x 40 x 27