



MEHTA TUBES LIMITED

The Company With Mettle



It's Time To Change

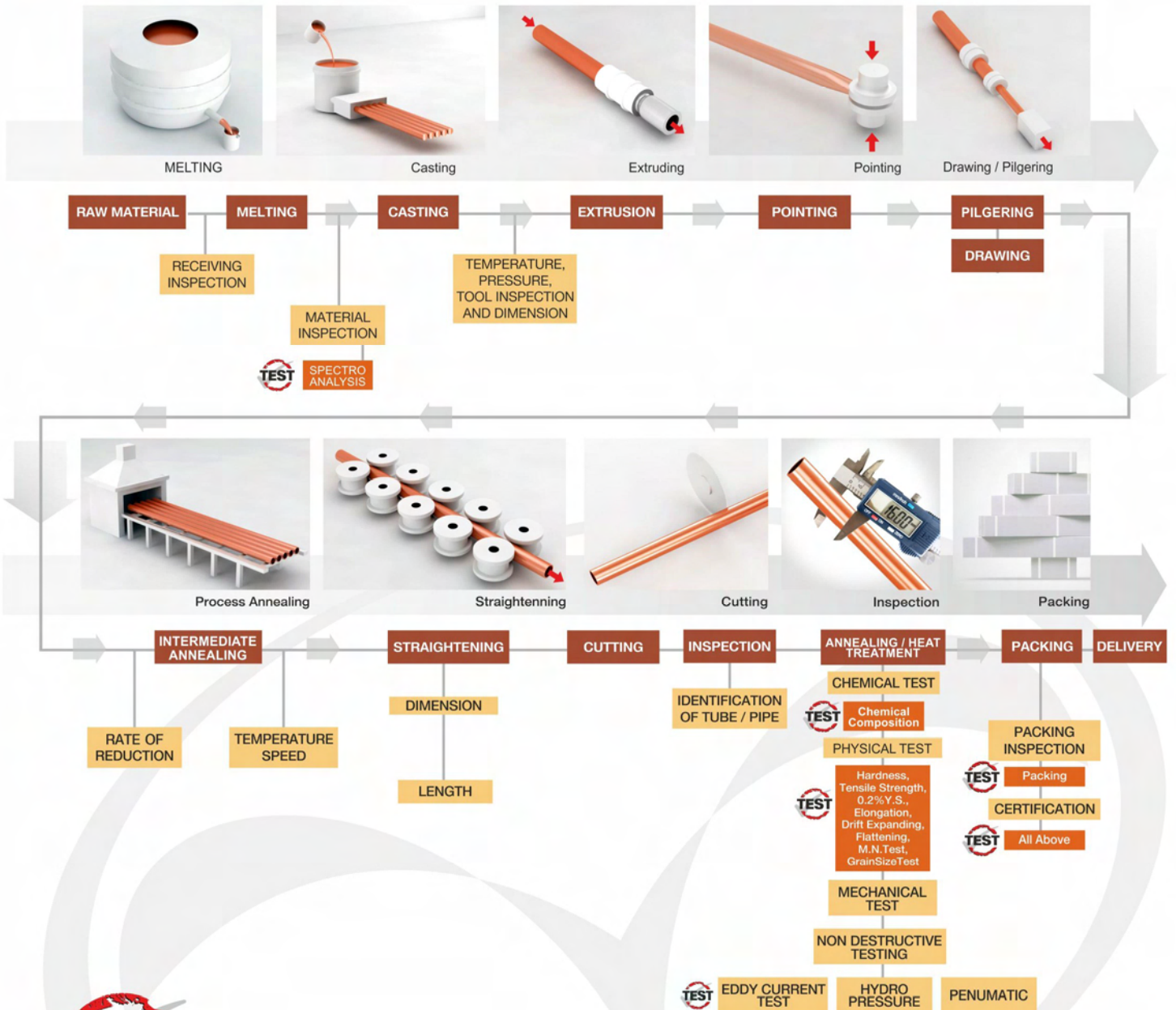


MEXFLOW[®]

Quality & Dependability

REARING
AHEAD
35 SINCE
YEARS

MANUFACTURING PROCESS



PRODUCT SIZE

MANUFACTURING RANGE.

Tubes: • Outside Diameter : 3.0mm (min) - 219mm (max)
 • Wall thickness : 0.3mm (min), Subject to OD
 • Length : 15mtr (max) in Straight
 : 150mtr (max) in Coil
 subject to OD & WT

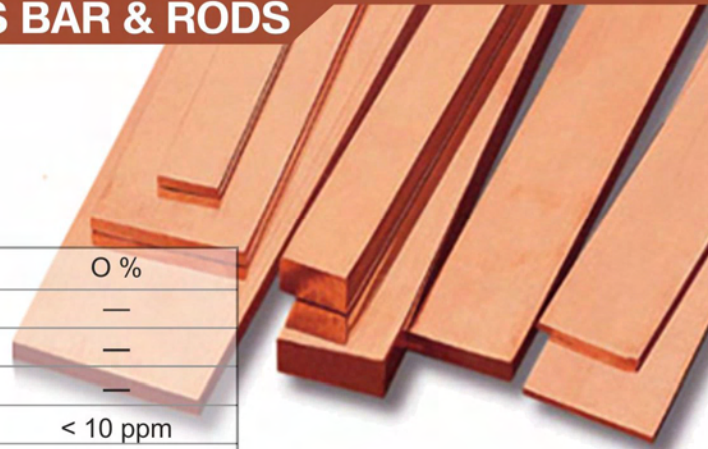
Strips / Bus Bars: • Width : 10mm - 250mm
 • Wall thickness : 1mm (min)
 • Length : Straight & Coil form

Rods: • Extruded & Drawn : 3.0mm - 150mm

Temper : Annealed / Half Hard / Hard.



COPPER FLATS, STRIPS, TAPE, BUS BAR & RODS



Chemical Properties:

Cu UNS No.	Cu %	Ag %	O %
C11300	99.90 (min)	0.027	—
C11400	99.90 (min)	0.034	—
C11600	99.90 (min)	0.085	—
C10200	99.95 (min)	—	< 10 ppm
C10100	99.95 (min)	—	< 5 ppm
C11000	99.95 (min)	—	—
C12200	99.90 (min)	—	—

Products Application Areas : Transformers, Control Panels, Switchgear, Industrial Electrification, Earthing etc.

COPPER SECTIONS & PROFILES

Copper and copper alloy, Hollow Sections & Profiles are in high demand for electrical applications due to their high conductivity characteristics. Typical end uses are connectors, hollow core conductor, heating elements, coolant tube for electrical generators and EDM tube for cutting and drilling.

Copper & Brass hollow section are also manufactured for general engineering industries and fabrications.

Size Range : As Per Drawing & Scaling

Products Application Areas : Heating Element, Generators, Coolers, Electric applications etc.



COPPER TUBES FOR HVAC & R / VRV & VRF

Standard	Symbol
ASTM B 68	C 12200
ASTM B 75	DHP C 12200
BS 2871 Part 2	C 106
BS 2871 Part 3	C 106
EN 12451	DHP
JIS H3300	C 1220
ASTM B 280	C 12200
ASTM B 111	C 12200

Products Application Areas:
Chiller, Evaporators, Coolers,
Refrigeration, Air Conditioning,
VRV & VRF.



"MEXFLOW" COPPER TUBE FOR MEDICAL GAS PIPELINE SYSTEMS

TUBE SPECIFICATIONS

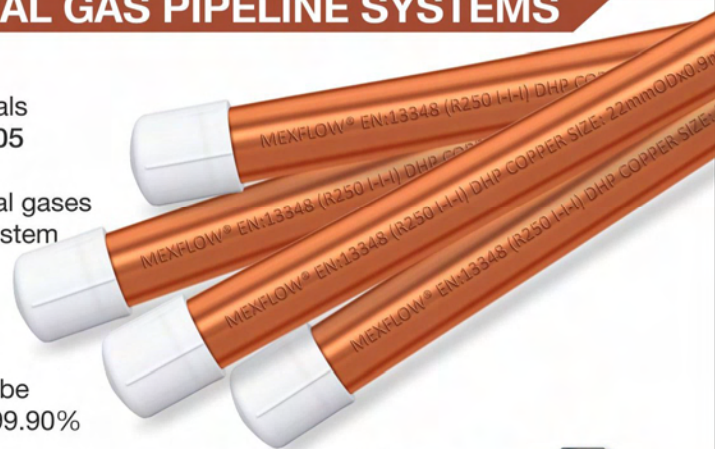
Seamless round copper tube for a medical gases or vacuum, materials conforming to an manufactured as per **BS:EN:13348:2016 + A1:2005** & **ASTM B-819** Degreased Copper tube of this European & American standard are suitable for distributing the following medical gases intended to be used at operating pressure up to 2000 kpa and for system under vacuum:

MANDATORY INSPECTION REQUIREMENT:

Chemical Composition : Chemical Composition of copper tube shall conform to the following requirements. The analytical methods shall be carried out by Direct Emission Spectrometer. Copper + Silver: min. 99.90% Phosphorous min. 0.015%, max. 0.040% This copper grade is designated either **CU-DHP** or **CW 024A**

- **CARBON CONTENT TEST ACCORDANCE WITH BS:EN:723: 1996.**
- **FREEDOM FROM DEFECTS TEST (NON DESTRUCTIVE TEST),**
- **EDDY CURRENT TEST IN ACCORDANCE WITH EN 1971.**
- **DEGREASE OF COPPER TUBE & INDIVIDUALLY CAPPED AT BOTH ENDS.**
- **SIZE RANGE: 10mm O. D. to 159mm O. D.**

Products Application Areas: Hospitals, Clinics, Medical Collage, Laboratory etc.



"MEXFLOW" COPPER TUBES FOR WATER, GAS & SANITATIONS

MEXFLOW Copper Tubes:

- BS EN 1057: Seamless, round copper tubes for water and gas in sanitary and heating applications
- ASTM B 88: Seamless Copper Water tube
- ASTM B 306: Seamless Copper DWV Tubes

Copper Tubes are specified in the BS 2871 / EN 1057 in three wall thicknesses designated under Table X, Y & Z

CHEMICAL COMPOSITION: Copper Tubes are designated under alloy C 106 also called DHP (Deoxidised High Residual Phosphorized Grade).

The requirement is as follows :

Min. Copper including Silver : 99.9%, Phos.: 0.015% - 0.040%.

Products Application Areas :

Plumbing, Solar, Sanitary, Natural Gas, LPG.



CITY GAS DISTRIBUTION

S.No.	PRODUCT DESCRIPTION	WT PER METER	MAX BURST PRESSURE		MAXIMUM WORKING PRESSURE (psi)				
			psi	Mpa	10300	10000	9700	9400	
		kg	psi	Mpa	BELOW SIZES CAN BE SUPPLIED IN STRAIGHT LENGTHS OF 3m 5m 5.5m 5.8m 6m				
COPPER TUBES / PIPE					100°F/38°C to 250°F/121°C	300°F/149°C	350°F/176°C	400°F/204°C	
1	12mm O.D. x 0.6mm Avg W. Thk.	0.193	1563	10.77	630	612	594	575	
2	15mm O.D. x 0.7mm Avg. W.Thk.	0.282	1454	10.03	499	485	470	456	

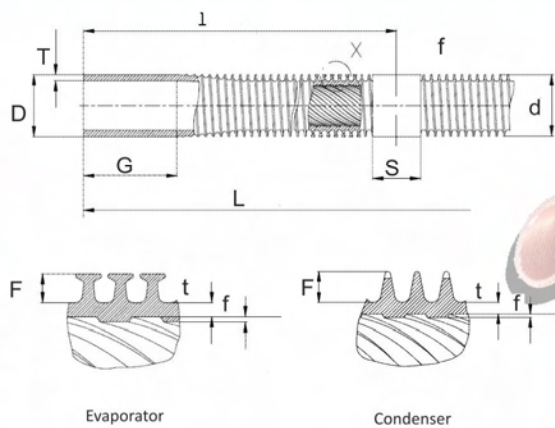
**Factor of safety =2



FINNED TUBES



INTEGRAL LOW FINNED TUBES	
	OD
Low Finned Tubes	19 / 26 / 42 / 56 FPI
Outer & Inner Fin	OD ID
Condenser	43 FPI 43 / 34 FPI
Evaporator	43 FPI 43 / 34 FPI
	56 FPI 43 / 34 FPI
Alloy	Copper/Cupro Nickel/Brasses
Tube OD Range	15.88mm - 25.4mm



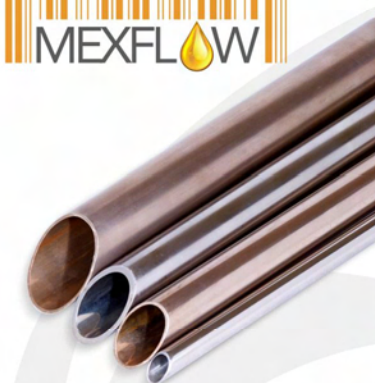
- D - Outer Diameter of Plain End
- d - Outer Diameter of Finned Section
- T - Wall Thickness of Plain End
- F - Fin Height (OD)
- G - Plain End Length
- t - Root Thickness
- f - Fin Depth
- S - Skip Distance
- L - Total Length of Fin Tube

Products

Application Areas: Boiler & Heat Exchanger, Heaters, Air Coolers, Generators etc.

CUPRO NICKEL TUBES

CONDENSER & HEAT EXCHANGERS



Products Application Areas:
Chillers, Heat Exchangers
& Condensers, Power Plants,
Refineries, Desalination Plants,
Ship Building & Ship Repairs,
Defence etc.

Alloy	Standard	Symbol
90/10 CuNi	ASTM B 111	C70600
	BS 2871 Part 3	CN 102
	EN 12451	CuNi 10 Fe 1Mn
	NFA51 102	CuNi 10 Fe 1Mn
	JIS H 3300	C 7060
	EEMUA Pub 144 1987	C 7060X
	NES 779 Part 3	90/10 CuNi
70/30 CuNi	ASTM B 111	C 71500
	BS 2871 part 3	CN 107
	EN 12451	CuNi 30 Fe 1 Mn
	NFA 51 102	CuNi 30 Fe 1 Mn
	JIS H 3300	C 7150

MARINE & DEFENSE



Alloy	Standard	Symbol
95/5 CuNi	ASTM B 111	C70400
80/20 CuNi	ASTM B 111	C71000
Cunifer	ASTM B 111	C71640

COPPER & COPPER ALLOY RODS / BILLETS

RWMA ALLOY

ROUND		
Cast & Turned	Extruded	Extruded & Drawn
100 MM TO 500 MM	> 80 MM TO 100 MM	3 MM TO 80 MM
100 MM TO 500 MM	> 80 MM TO 100 MM	15 MM TO 80 MM

COPPER	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	10 MM TO 75 MM
> 75 MM TO 100 MM	20 MM TO 75 MM

SQUARE	
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	10 MM TO 75 MM
> 75 MM TO 100 MM	20 MM TO 75 MM

COPPER NICKELS		
100 MM TO 500 MM	> 80 MM TO 100 MM	15 MM TO 80 MM
100 MM TO 500 MM	> 80 MM TO 100 MM	25 MM TO 80 MM

COPPER NICKELS	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	20 MM TO 75 MM
> 75 MM TO 100 MM	20 MM TO 75 MM

COPPER NICKELS	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	20 MM TO 75 MM
> 75 MM TO 100 MM	20 MM TO 75 MM

BRASSES		
100 MM TO 500 MM	> 80 MM TO 100 MM	25 MM TO 80 MM
1100 MM TO 500 MM	> 80 MM TO 100 MM	25 MM TO 80 MM

BRASSES	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	20 MM TO 75 MM
> 75 MM TO 100 MM	20 MM TO 75 MM

BRASSES	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	20 MM TO 75 MM
> 75 MM TO 100 MM	20 MM TO 75 MM

NICKEL & SILVER		
100 MM TO 500 MM	> 80 MM TO 100 MM	25 MM TO 80 MM

NICKEL & SILVER	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	20 MM TO 75 MM

NICKEL & SILVER	
HEXAGONAL	SQUARE
Extruded	Extruded & Drawn
> 75 MM TO 100 MM	20 MM TO 75 MM

COPPER & COPPER ALLOY RODS / BILLETS

COPPER

S.N.	ALLOYS	ASTM	BS	EN
ALLOYS NAME AND SPECIFICATIONS				
1	Arsenical Copper	C14200	C107	-
2	Tellurium Copper 1	C14500	C109	CW118C
3	Sulphur Copper	C14700	C111	CW114C
4	Cadmium Copper	C16200	C108	-
5	Chromium Copper	C18200	CC 101	CW105C
6	Chromium Copper Nickel Silicon	C18000		CW111C

COPPER NICKELS

S.N.	ALLOYS	ASTM	BS	EN
ALLOYS NAME AND SPECIFICATIONS				
1	90/10 Cu Ni	C70600	Cn102	CW352W
2	70/30 Cu Ni	C71500	Cn107	CW353H

BRASSES

S.N.	ALLOYS	ASTM	BS	EN
ALLOYS NAME AND SPECIFICATIONS				
1	Cartridge Brass	C26000	-	-
2	Basic Brass	C27200	-	-
3	Naval Brass	C46200 C46400	BS 2874	-
4	High Tensile Brass	C36000	BS 2874	-
5	Free Machining Brass	C36000	BS 2874	-
6	Arsenical Brass	C36000		-

NICKEL & SILVER

S.N.	ALLOYS	ASTM	BS	EN
ALLOYS NAME AND SPECIFICATIONS				
1	Nickel Silver Free Machining Rod	-	-	-



BRASS TUBES

CONDENSER & HEAT EXCHANGER

Alloy	Standard	Symbol
Admiralty Brass	ASTM B 111	C 44300
	BS 2871 Part 3	CZ -111
	EN 12451	CuZn28 Sn 1 As
	NFA 51 102	CuZn29 Sn 1
	JIS H 3300	C 4430

Alloy	Standard	Symbol
Aluminium Brass	ASTM B 111	C 98700
	BS 2871 Part 3	CZ -110
	EN 12451	CuZn20 AL2As
	NFA 51 102	CuZn22 AL2
	JIS H - 3300	C 6870

Products Application Areas: Heat Exchange, Refineries Power Plants, Desalination Plants, Ship Building & Ship Repairs, Condensers, Ferrules, Distillers.

Alloy	Standard	Symbol
Aluminium Bronze	ASTM B 111	C 60800
	EN 12451	CuAL5As
		CW200G

Products Application Areas: Heat Exchange in Chemical Industry, Desalination Plants, Refineries Ship Building & Ship Repairs.



FURNITURE / SANITARY

Alloy	Standard	Symbol
63/37 Brass	ASTM B 135	C 27200
	JIS H 3300	C 2700
	DIN 17671	CuZn37
85/15	ASTM B 135	C2300

Products Application Areas: General Engineering, Ammunition, Bore Hole Tubes, Architectural Grill.

DEFENSE

Alloy	Standard	Symbol
70/30 Brass	ASTM B 135	C 26000
	BS 2871 Part 3	CZ -126
	EN 12451	CuZn30As
	NFA 51 102	CuZn30
	JIS H 3300	C 2600
	AS 1572	26130

Products Application Areas: Sugar Industry, Plumbing, Furniture, General Engineering, Ammunition, Bore Hole Tubes.

Alloy	Standard	Symbol
Naval Brass	ASTM B 21	C 46400
	BS 2874	CZ - 112
	DIN 17665	CuZn405n

Products Application Areas : Marine, Defense, Bushes.

Alloy	Standard	Symbol
90/10 Brass	ASTM B 111	C 22000
	EN 12451	CuZn10

Products Application Areas: Defence, Bushes, Driving Bands.

FITTINGS & BRAZING FILLERS

COPPER PHOSPHOROUS BRAZING ALLOYS:

MEXFLOW offers a wide range of High Quality Copper Phosphorus Brazing Alloys in various shapes like rods, wire & strips (flat type) These Alloys are Extensively used for joining copper & copper based Alloys. They have Self-Fluxing Properties when used on Copper.



PRODUCT NAME	MELTING RANGE		COMPOSITION					APPLICABLE STANDARDS				
	SOLIDUS	LIQUIDUS	Ag %	Cu %	P %	Zn %	Cd %	BA Cu P2	BCuP-2	L-CuP7	CP3	CP202
MEXFLOW OP	710°C	820°C	-	92.50%	7.50%	-	-	BA Cu P2	BCuP-2	L-CuP7	CP3	CP202
Extremely Fluid at Brazing Temperature & will penetrate joints with very small clearance												
MEXFLOW 2P	645°C	825°C	2%	91.20%	6.80%	-	-	BA Cu P3	BCuP-6	L-Ag2P	CP2	CP105
Has very good flow characteristics at higher end of its brazing range & penetrate joints having little clearance												
MEXFLOW 5P	643°C	815°C	5%	89%	6%	-	-	BA Cu P4	BCuP-3	L-Ag5P	CP4	CP104
Has good flow & wetting properties on Copper & Copper Alloys												
MEXFLOW 43	615°C	620°C	43%	16%	-	20%	21%	BA Cu Ag 16A				
Used in Brazing Copper, Brass, Aluminum & Manganese Bronzes, Copper-Nickel Alloys & Nickel Silver. It is easy to use, has got the shortest melting range & excellent flow properties												

PRODUCT	TYPE	SIZE RANGE	SPECIFICATION
ELBOW 90 DEG	C x C	1/4" to 4.1/8"	ASME B 16.22
ELBOW 45 DEG	C x C	1/4" to 4.1/8"	
REDUCER ELBOW 90 DEG	C x C	1/4" to 2.1/8"	
COUPLER / SOCKET	C x C	1/4" to 5.1/8"	
EQUAL TEE	C x C x C	1/4" to 4.1/8"	
COUPLER / SOCKET REDUCER	C x C	1/4" to 4.1/8"	
COUPLER / SOCKET REDUCER	F x C	1/4" to 4.1/8"	
REDUCER TEE	C x C x C	1/2" to 1.3/8"	
END CAPS	C	1/4" to 4.1/8"	
PRODUCT	TYPE	SIZE RANGE	
ELBOW 90 DEG	C x C	12mm to 159mm	EN 1254 Degreased
ELBOW 45 DEG	C x C	12mm to 54mm	
REDUCER ELBOW 90 DEG	C x C	12mm to 76.1mm	
COUPLER / SOCKET	C x C	12mm to 159mm	
EQUAL TEE	C x C x C	12mm to 108mm	
COUPLER / SOCKET REDUCER	C x C	12mm to 108mm	
COUPLER / SOCKET REDUCER	F x C	12mm to 108mm	
REDUCER TEE	C x C x C	12mm to 108mm	
END CAPS	C	12mm to 108mm	



** "C" Indicates that an end is the same Diameter as the Copper Tube so it will slide into another Fitting Designed for Copper Tube

HEX RANGE OF ELECTRICAL ACCESSORIES

When the customers require items of electrical accessories other than those available in our product range, we quote for these special items, modifications of existing range or simply low usage items based on the state-of-art facilities available with our group company under brand name "HEX", complete product catalogue can be send upon request.

Product Application Area : Electrical, switchgear
www.hexworldwide.com



OUR PRESTIGIOUS CLIENTS

PSUs



OEM's



PRODUCTS & PLANT APPROVALS



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Unit 2: Survey No. 46/1, Ganga Devi Road, Palgam, Umbergaon Dist: Valsad, Gujarat, Pin - 396170, India.
Daman Unit: Plot No. 100/101, Panchal Udyog Nagar, Bhimpore, Daman (U.T.), Pin - 396120, India.

Mehta Group - The Radiant Star Of Indian Copper Industry

MTL/BR/01_REV02
EXPORT HOUSE



An ISO 9001:2015 Company