





Since 1984

TECHNOLOGY for _engineering_design_construction_prefabrication[©]

WORDS FROM MANAGEMENT.

THEN

Dr. William Schenkel, Director of Research and development at Egli-Fischer and Co., Zurich, Switzerland invented the first thermoplastic support and hanger made in a high grade nylon. This patented invention changed the way people envisioned construction hardware. That was in 1960, the product **clic**.

TODAY

Today Clic is distributed in more than 40 countries worldwide. It has been installed in the most celebrated construction projects in the world with nearly one billion units installed by leading constructors of all types.

LI SUPPORT

Litchfield International enters its 24th year of service providing Clic to the most sophisticated groups of engineers, contractors, OEMs, designers, distributors, and managers in the construction and manufacturing industries. With installations in most of the

Fortune 500 facilities in this country, Clic continues to unlock the value of labor and installation techniques for those that install it.

RAISING THE BAR

Having pioneered thermoplastic supports and accessories, Litchfield International has set the benchmark in construction hardware. No company has worked as diligently as Litchfield to provide support, service and tools to its distribution and end-user customers.

It's not just a hanger anymore.

Construction hardware is no longer an afterthought. It is an important component in today's and tomorrow's construction design and implementation. Use our design tools to bring your client total satisfaction.

Clic it's what we do.

-Litchfield International Management

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MORE PARTS IN MORE PLACES CLIC SIDE-KICKS **DESIGN TOOLS**

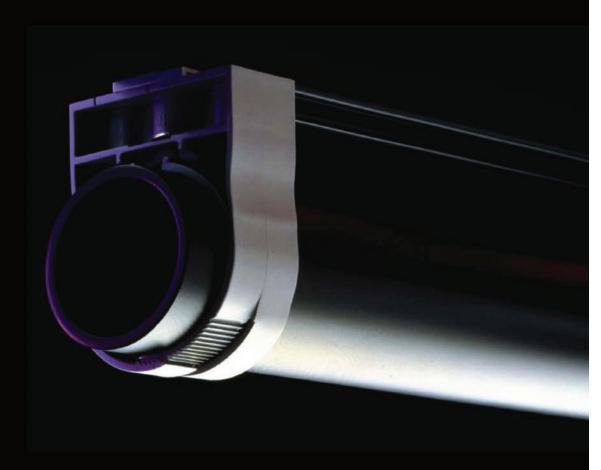
TECHNICAL DATA

ALL ABOUT CLIC.

WHAT IS CLIC?

Clic is a thermoplastic support and hanger system with an autolocking feature. Made from high-grade plastic polyamids, the product supports all types and weights of conduit, pipe, tubing and cable. It attaches to strut with the patented Strutcatcher [r] products.

Clic is UL, and ROHS compliant.









MORE PARTS
IN MORE PLACES

CLIC SIDE-KICKS

HOW CLIC WORKS.

Insert pipe, tube, conduit or cable into the open Clic, apply slight pressure to the tubular member and the jaws close and lock. A sharp "clic" indicates the pipe/ tube/conduit/cable is securely fastened.

It's that simple.



Mount to surface.





Insert cable, tube or conduit.





Apply pressure and the jaws close and lock.



FIRST CLIC DRAWING WAS DONE IN THE USA, YEAR 1984.





TECHNICAL DATA

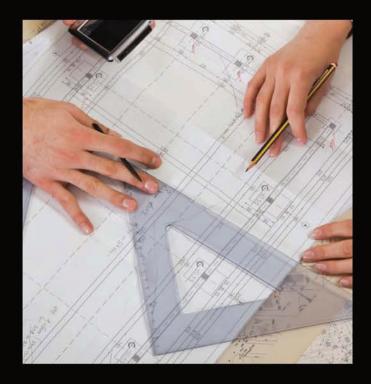
PRODUCT BENEFITS.

Clic has helped design engineers like you offer clients the best product with the superior set of specifications. Clic has been used nationwide and worldwide.

The product offers several benefits that add to the laboratory-quality construction.

Clic Benefits Package.

- Non-magnetic and non-conductive
 - Allows expansion and contraction of pipe and conduit systems
 - Facilitates redundant piping/ conduit in confined spaces
 - Cost effective
- No longer is construction hardware an afterthought in large scale construction
- Better materials, better products, client satisfaction
- Applications: clean rooms, commercial plumbing systems, water treatment, industrial and commercial conduit systems, life support systems, laboratory construction, telecom
- A product with unparalleled track records
- Certifications unmatched by most
- UL 2043 (for plenum installations)
- M+W Zander off-gassing for clean room application
- ROHS · ISO
- Compliant with NEC Section 352.44 for expansion fittings



THE BOTTOM LINE.

Clic has raised the bar on construction hardware.

Why? It saves designers and contractors time and construction hard costs.

SUPPORT.

Clic is easy to specify, recommend and use. The company offers most product drawings and specifications without registration and logins.

We make it easy.

www.litchfieldinternational.com







CLIC SIDE-KICKS

MORE PARTS IN MORE PLACES.



CLIC MARKETS.

- Electrical Construction
- Mechanical Piping
- Plumbing Systems
- Hydronics
- HVAC
- Telecommunications
- MRO
- OEM design

CLIC SUBMARKETS.

Marine · Electronics · Semiconductor · Water · Waste treatment · Solar
Laboratory construction · Skid manufacturing · Reverse osmosis · Life support systems
Aquaculture · Agriculture · Ultra pure · Rf telecom · Cable TV · Cell sites · Outside plant
Facility retrofit · Design build · Pharmaceutical · Misting systems · Tunnels
Parking garages · Super yachts · Structured cable · Swimming pools · Hospitals
Food processing · Trade show exhibits · Stage lighting · Medical gas
Residential fire protection · Fisheries · Beverage process · Clean rooms · Medical systems





TECHNICAL DATA

USE WITH PIPING, CONDUIT, CABLE SYSTEMS.

Electrical Conduit:

Rigid · Flex · Corrugated · PVC · PVC Coated · EMT · Fiberglass

Cable:

Power · RF · Coax · Plenum · Armored · Structured

Duct:

Innerduct · Corrugated Duct

Pipe:

Steel · Aluminum · Stainless · Schedule 40 and 80 · Cast Iron

Glass: Beaded

Thermoplastic:

PVC Schedule 40/80 · PB · CPVC · PVDF · PP · PE

ABS · Fiberglass

Tubing:

Copper · ACR

Stainless · CPVC · PB

PEX:

Potable Water

Heating · Ice Melting







MORE PARTS
IN MORE PLACES



CLIC SIDE-KICKS.

ACCESSORIES.

CLIC ACCES	SSORIES			
	PART NAME & NUMBER	USE WITH	DESCRIPTION	QTY.
	Adaptor LT-102	Flange LT-101 & 3/8" ROD	Stainless steel 303 alloy & carbon steel, 1/4" - 20 male x 3/8" - 16 female, 3/4" overall length	50
0	Base Plate BP88.270	For mounting two Clic #8-#25	Dark grey, 70 x 20 x 5 mm for mounting 3 Clics together, max hold 15 lbs.	50
600	Base Plate BP88.271	For mounting three Clic #8-#25	Dark grey, 110 x 20 x 5 mm for mounting 3 Clics together, max hold 15 lbs.	25
	Flange LT-101	Clic #8-#59	Stainless steel 316 alloy, tapped 1/4" - 20 for thumb-tight fit into slot in base of Clic	100
	Flange LT-106	Clic #63-#113	Stainless steel 316 alloy, tapped ³ / ₈ " - 20 for thumb-tight fit into slot in base of Clic	25
	Screw LT-110	LT-109, LT-109-2 & Clic #63-#113	Stainless steel 316 screw 2 - 1/4" long	50
	Strutcatcher LT-109	Clic #8-#113	Comes with stainless steel 316 screw	100
	Strutcatcher LT-109-2	Clic #8-#59	For light-duty applications, Comes with stainless steel 316 screw	100
	Stud LT-103	To mate with flange LT-101	Stainless steel 316 alloy, threaded ¹ / ₄ " - 20 long	100
	LT-109Kit	Clic #8-#59	One LT109 and one screw	50
	LT-110K	Clic #63-#113	Two LT109, two washers and two LT110 screws	25





TECHNICAL DATA

CLIC SPAC	ERS		_	
	PART NAME & NUMBER	USE WITH	DESCRIPTION	QTY.
	Clic Spacer LT-88-2.5	Clic #8-#59	2.5mm [.098"] Light Grey	100
	Clic Spacer LT-88-5.0	Clic #8-#59	5.5mm [.196"] Light Grey	100
	Clic Spacer LT-88-15	Clic #8-#59	15mm [.59"] Light Grey	100
	Clic Spacer LT-88-25	Clic #8-#59	25mm [.984"] Light Grey	100
	Clic Spacer LT-88-35	Clic #8-#59	35mm [1.377"] Light Grey	100
	Clic Spacer LT-88-45	Clic #8-#59	45mm [1.771"] Light Grey	100
clic	Clic Spacer LT-88-65	Clic #8-#59	65mm [2.559"] Light Grey	50
CHC	Clic Spacer LT-88-85	Clic #8-#59	85mm [3.346"] Light Grey	50

SIDE-KICK FACTS.

The LT-101 Flange fits thumb tight into the base of a Clic and permits a 1/4" threaded rod or stud to attach to the Clic via a hole in the base of the unit.

The LT-102 Reduction Fitting has one end that goes into a $^{3}/_{8}$ threaded rod while the other end screws into an LT-101 Flange located in the base of a Clic unit.

The LT-110 Screw is used to attach larger Clic units to Strutcatchers.

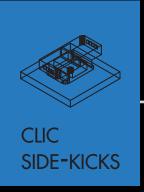


Bundling rings are discontinued.



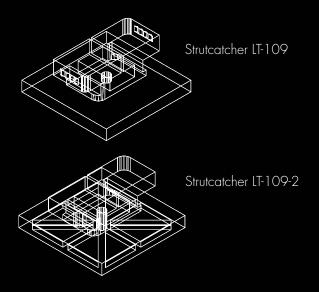


MORE PARTS IN MORE PLACES



STRUTCATCHER TM

Works with the Clic to ease your toughest installations.



Benefits.

- Work on top of strut
- Ease of installation
- Cost effective
- Work with screw gun
- Allows on-site or in-shop prefabrication
- Can organize more conduit or pipe runs on short length and height restrictions
- Non-magnetic and non-corrosive
- Easy change out

Material Specs.

For inquires regarding Clic engineered polymers, please contact technical support at info@litchfieldinternational.com or projectmanager@litchfieldprojects.net

Steel Strut Sizes.

 $12 \text{ gauge } 1^{5/8}$ " x $1^{5/8}$ "

12 gauge 1" x 1⁵/₈"

12 gauge $^{13}/_{16}" \times 1^{5/8}"$ 14 gauge $^{13}/_{16}" \times 1^{5/8}"$

HOW IT WORKS.



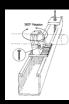


Insert Structcatcher into Strut.





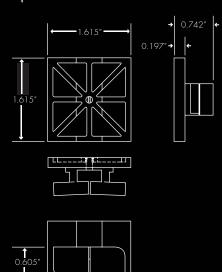
Twist Strutcatcher 90 degrees and it locks into place.





Mount Clic onto Strutcatcher with a screw. Swivel Clic to desired position.

Specs.







TECHNICAL DATA

Strutcatcher application and strength examples.

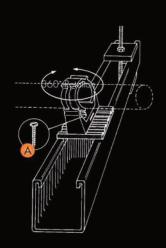
For pipe/tube/conduit/cable sizes through 2" [Clic #17 through #59], use one Strutcatcher for each Clic with screw as shown.

LT-109 and LT-109-2 [LT-109-2 is light duty] come with a stainless steel 302 #10 AB screw, 1.24" long.

B For #15 Clic and smaller, Litchfield International will substitute #8 AB screw to accommodate.

For pipe/tube/conduit/cable sizes 2 ½" through 4" (Clic #71, #80 or #113) use two Strutcatchers for each Clic with washer and screws as shown.

LT-110 screws for Clic #63 - #113 for strut installation are optional or may be exchanged for LT-109 screws.







A Screw for Clic-x #17 - 59; 100 screws supplied in box of LT-109 and LT-109-2



B Screw for Clic-x #10 - 17, #8 screw [substituted upon request]



C LT-110 screw [2.5" long] and washer needed to install #71-113 onto strut

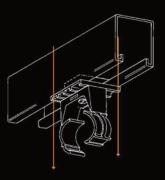
Complete installation require 2 LT-110 screws and 2 washers. For installation of #63 for 2.5" tubing—one LT-109, one LT-110 and 1 washer can be used



Washers needed to install #63 - 113 on LT109 and LT-109-2

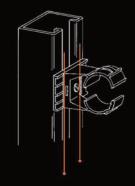
IN EXTENSION

550 lbs. average load to failure at 73°F

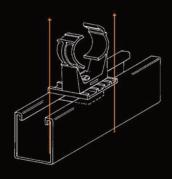


IN SHEAR

390 lbs. average load to failure at 73°F



IN COMPRESSION









MORE PARTS
IN MORE PLACES

CLIC SIDE-KICKS

DESIGN TOOLS.

CLIC - PLASTIC PIPE CLAMPS.

The self-locking plastic pipe clamps for safe and efficient installation of cables and tubes.

- One-piece, self-locking pipe clamp
- Simple mounting without locking screws
- Fast mounting
- Halogen free as per EC-Norm 754-2
- Burning behavior as per UL94 HB
- Clamping range 8 mm 127 mm
- · Low height

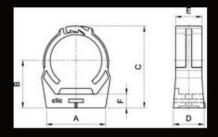






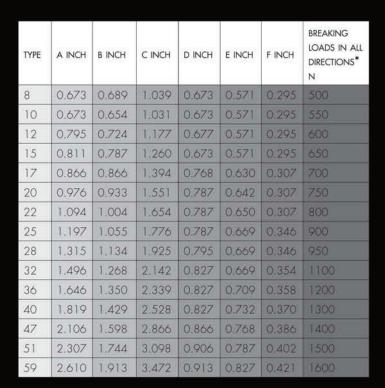


TECHNICAL INFORMATION



Breaking loads with screw DIN 96 at + 20 °C

* Values for Clic





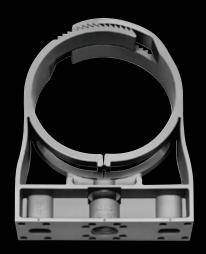




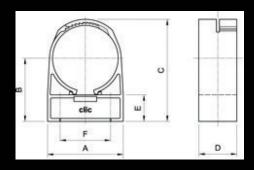
TECHNICAL DATA



CLIC 8-59



TECHNICAL INFORMATION



CLIC 63-127

- High-quality Polyamide
- Easy and excellent fixing for pipes with o.d. 63 mm - 127 mm
- Ideal for infrastructural and industrial buildings
 • Secure against vibration through
- patented closing mechanism
- Temperature range up to +110°C
- Mounting temperature up to -20 °C

TYPE	A INCH	B INCH	C INCH	D INCH	E INCH	F INCH	BREAKING LOADS F _y N	BREAKING LOADS F _x N
63	3.071	2.835	4.528	1.575	1.222	2.047	1800	1000
71	3.425	3.031	4.882	1.575	1.222	2.283	2200	1300
80	3.858	3.268	5.354	1.575	1.222	2.598	2600	1600
90	4.331	3.504	5.827	1.575	1.222	2.992	3000	1900
101	4.882	3.780	6.417	1.575	1.222	3.386	3500	2200
113	5.472	4.134	7.087	1.575	1.222	4.016	4000	2500

Breaking loads with 2 screws DIN 571 at + 20 °C







MORE PARTS
IN MORE PLACES

CLIC SIDE-KICKS

TENSILE TESTS FOR CLIC/STRUTCATCHER SYSTEM.

Clic Models Tested.

		SCHED	ULE 40 PVC	PIPE		ULE 40 NIZED STEEL	PIPE		ULE 40 R TUBE	
CLIC PART NO.	AVERAGE LOAD TO SEPARATE LOCK AT 73" IN LBS	NOM. SIZE	WEIGHT PER FOOT	UPC HORIZONTAL SUPPORT SPACING	NOM. SIZE	WEIGHT PER FOOT	UPC HORIZONTAL SUPPORT SPACING	NOM. SIZE	WEIGHT PER FOOT	UPC HORIZONTAL SUPPORT SPACING
10	110	1/8"	.045 lbs	4 ft	1/8"	.25 lbs	10 ft			
12	121	1/4"	.081 lbs	4 ft	1/4"	.43 lbs	10 ft	3/8"	.269 lbs	6 ft
17	143	3/8"	.109 lbs	4 ft	3/8"	.57 lbs	10 ft	5/8"	.418 lbs	6 ft
28	208							1"	839 lbs	6 ft
32	220	1"	.320 lbs	4 ft	1"	1.68 lbs	12 ft	1%"	1.040 lbs	6 ft
47	287	11/2"	.520 lbs	4 ft	11/2"	2.72 lbs	12 ft			
51	309							2"	2.060 lbs	10 fi
59	253	2"	.690 lbs	4 ft	2"	3.66 lbs	12 ft			
71	485	21/2"	1.13 lbs	4 ft	21/3"	5.79 lbs				
80	575	3"	1.46 lbs	4 ft	3"	7.58 lbs				
113	880	4"	2.05 lbs	4 ft	4"	10.79 lbs				

LT-109 Strutcatcher and LT-109-2 Strutcatcher2 Test Results.

PART NO.	EXTENSION	SHEAR
LT-109	550 lbs	390 lbs
**LT-109-2	502 lbs	56 lbs

^{**}Recommended for light duty only.

- Loading not to exceed determined values in application.
- UL temperature test performed at 167°F
- The spacing information of Clic supports should be found in the applicable code and/or the manufacturers' pipe and tube recommendations.
- Clic is used under the National Electric Code. See wiring methods articles 300 - 399.
- For spacing, see manufacturer's recommendations for supporting and hanging conduit and cable types.
- For structured cable systems, see TIA/EIA standard 568.

Accessory Test Results.

PART NO.	EXTENSION	SHEAR
LT-102	495 lbs	LT-101 Flange and 1/4" Threaded Rod

Clic Code Approvals.

Plumbing:

- M+W Zander Outgassing for Semiconductor Cleanrooms
- UL 2043: Clic #8-#59 (.295" 2")
- UL 1565: Clic #8 #113 (.295" 4")
- ISO 9001:2000

Electrical:

- UL 2043: Clic #8-#59 (.295" 2")
- UL 2043: Clic #8-#113
- EL.UL 2043: Clic #8-#113
- UL 1565: Clic #8 #113 (.295" 4")

UL test temperature 167°F

Email tech support: info@litchfieldinternational.com





TECHNICAL DATA

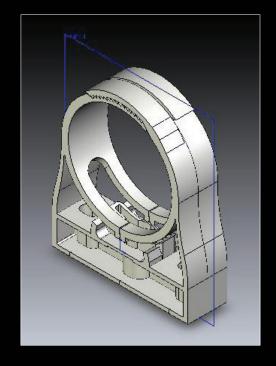
CAD DRAWINGS.

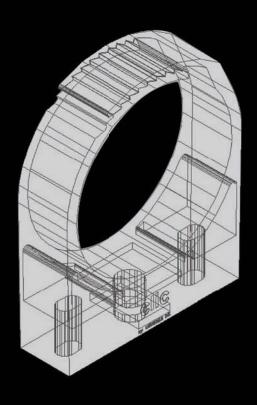
The new CAD Library is being updated with the most popular sizes and accessories in several formats.

No complicated logins needed.

CAD files are found at www.litchfieldinternational.com.

Go to the CAD Library.













MORE PARTS
IN MORE PLACES

CLIC SIDE-KICKS

LI SUPPORT KIT.





CLIC kits are designed for both engineering firms and contracting firms. These are distributed by Ll agents and authorized distribution customers. It contains enough samples to create a mock installation within a shop or facility.

These kits are offered directly to an inquiring contracting company and via Ll's distributor customers.

Call (888) 443-3999 to order.

You can also request online at litchfieldinternational.com. Go to Service and Contact, then LI Support Kits. No charge.





TECHNICAL DATA

WEBSITE — LITCHFIELDINTERNATIONAL.COM.



REASONS TO VISIT

- Specifying information for engineers and designers
- Always open with complete product information
- Find a distributor
- Open a distribution account
- Speak with customer service to track your order
- Learn product benefits and applications at Learning Center
- Obtain CAD drawings as downloads
- Design Tools
- Learning Center

NEW WINNING LOTTERY FOR ENGINEERS IN INDUSTRY

Cad drawings on popular sizes. No logins needed.

CLIC GOES TO THE MOVIES.

LITCHFIELD**PROJECTS**®

Litchfield offers exclusive building project data to invited distributors and agents. A comprehensive and easy to use method to integrate LI sales tools to capture building project orders. This paperless systems speeds valuable information to Litchfield customers. LitchfieldProjects is a great value building program offered at no charge. Be sure to inquire. Limited enrollment so be sure to get on our list.

Demo kits: As part of LitchfieldProjects, demo kits are customized with your company information. These may be requested to be used for general sales calls and not tied directly to LitchfieldProjects.

The automation movie is coming June 09.

Visit LitchfieldProjects.net to learn more about this opportunity. Limited enrollment.



CLIC MOVIE - FROM LITCHFIELDPROJECTS. COMING FALL OF 09.

i.e.















MORE PARTS
IN MORE PLACES

CLIC SIDE-KICKS

TECHNICAL DATA.

NEW PROGRAMS

Lottery for Industry Engineers—Claim your rewards at www.litchfieldinternational.com. Go to Engineers Only.

Distributor Cheat Sheets—Print the benefit sheet to bring to your customers at www.litchfieldinternational.com. Distributors only.

LitchfieldProjects—Be sure to sign up. Register at www.litchfieldprojects.net or email your info to projectmanager@litchfieldprojects.net.







SELECTION CHARTS.

Rigid Conduit.

TYPE OF CONDUIT		TRAD	E SIZES										
		1/4"	5/16"	3/8"	1/2"	3/4"	1"	114"	11/2"	2"	21/2"	3"	4"
FMT	PART #				*17	*22	28	*36	*40	*51	71	*80	*113
GALVANIZED STEEL	CONDUIT OD				0.706"	0.922	1.163"		1.740*		2.875	3.500*	4.500"
IMC	PART #				*20	*25	132	40	*47	#59	771	*80	*113
GALVANIZED STEEL & ALUMINUM	CONDUIT OD				0.815	1.029*	1.290*		1.883*	2.360*	2.875*	3.476	4.400
RIGID	PART #				*20	'25	132	"40	*47	159	71	*80	*113
GALVANIZED STEEL & ALLIMINUM	CONDUIT OD				0.840*	1.050	1.315		1.900	2.375*	2.875*	3.500*	4.500*
PVC	PART #				*20	*25	*32	*40	*47	*59	171	*80	*113
SCHEDULES 40 & BO	CONDUIT OD				0.840*	1.050*	1.315"	1.660"	1.900*	2.375	2.875*	3.500*	4.500*
PVC COATED RIGID	PART #				'22	*28	*32	*47	*47	159	·71	190	*113
GALVANIZED STEEL & ALLIMINUM	CONDUIT OD				0.920*	0.130*	1.395	1.740*	1.980	2.455	2.955	3.580*	4.580
40 MIL PVC COATED IMC	PART #				122	*28	*36	*40	*47	159	.71	*80	*113
GALVANIZED STEEL & ALUMINUM	CONDUIT OD				0.895*	1.109*	1.370*		1.963*	2.244*	2.937*	3.556*	4.546*
24 MIL PVC COATED EMT	PART #				17	125	*32	*40	47	*59			
GALVANIZED STEEL	CONDUIT OD				0.706*	0.972	1.213*	1.560°	1.790°	2.247*			
FIBERGLASS	PART #									151	63	171	*101
SMALL DIAMETER TUBE DIMENSIONS	CONDUIT OD									2.140*	2.625"	3.150*	4.125"
FIBERGLASS	PART #					*25	32	*40	*47	*59	171	*80	*113
STANDARD & HEAVY WALL PIPE DIMENSIONS	CONDUIT OD					1.029	1.3151	1.660"	1.980*	2.375"	2.875*	3.500*	4,530
OTHER SPECIALTY	PART #				*20	*25	'32	*40	*47	159	171	*80	*113
AS STAINLESS STEEL, EVERDUR SAME O.D. AS IMC & RIGID	CONDUIT OD				0.840*	1.050*	1.3151	1.660*	1.900*	2.375	2.875*	3.500°	4.580"

Flexible Conduit.

TYPE OF CONDUIT		TRADI	SIZES										
		1/4"	5/16"	3/8"	1/2"	3/4"	1"	114"	11/2"	2"	21/2"	3"	4"
FLEXIBLE METAL CONDUIT	PART #		12	115	'20	125	'32	*40	47	*59	171	*80	*113
GALVANIZED STEEL & ALLIMINUM	CONDUIT OD		0.470	0.560"	0.860*	1.045*	1.300°		1.850*	2.350*	2.875*	3.500*	4.500°
LIQUIDTIGHT FLEXIBLE	PART #	*10	*15	117	122	125	*32	*40	47	159	171	180	1113
METALLIC & NON-METALLIC CONDUIT	CONDUIT OD	0.450*	0.570*	0.690"	0.860*	1.045	1.300*	1.550*	1.850*	2.350	2.875*	3.500	4.500"
CORRUGATED FLEXIBLE	PART #			117	'20	25	*32	'40	47	*59	*71	*80	*113
NON-METALLIC LIQUIDTIGHT CONDUIT	CONDUIT OD			0.690"	0.860*	1.045"	1,300*	1.550*	1.850*	2.350*	2.875*	3.500*	4,500"
ENMT	PART #				*20	*25	132						
ELECTRIC NON-METALLIC CONDUIT	CONDUIT OD				0.860*	1.045*	1.300*						
CORRLOK® FLEXIBLE	PART #			'15	*20	128	*32	*40	*51				
NYLON CONDUIT	CONDUIT OD			0.625*	0.844"	1.125*	1.375*	1.688"	2.156*				
LIQUATITE®	PART #			*16	'20	'25	*32	"40	*47	*59			
NON-METALLIC FLEXIBLE CONDUIT TYPES INM & INMP	CONDUIT OD			1.755*	1.910*	1.150*	1.415"	1.800*	2.045*	2.555*			
OTHER SPECIALTY	PART #						*32	'40	47	159			
CORRUGATED DUCTS FOR FIBER OPTICS, SAME O.D. AS RIGID	CONDUIT OD						1.315"	1,660*	1.900"	2.375*			







MORE PARTS IN MORE PLACES CLIC SIDE-KICKS

SELECTION CHARTS.

Pipe.

TYPE OF PIPE		NOMINA	AL PIPE	SIZE/	ACTU	AL PIPE	OUTSI	DE DIA	METER				
DIACTIC		1/8" ID	1/4"	3/8"	1/2"	3/4"	1"	11/4"	11/2"	2"	21/2"	3"	4"
PLASTIC		.405" OD	.540"	.675"	.840"	1.050*	1.315"	1.660"	1.900"	2.375"	2.875"	3.500"	4.500"
PVC SCHEDULES 40,80, & 120	Part #	•10	*12	*17	*20	"25	*32	*40	*47	*59	*71	*80	*113
CPVC SCHEDULES 40 & 80	Part #		*12	117	*20	*25	*32	*40	47	159	*71	*80	1113
ABS SCHEDULES 40 & 80	Part #			117	20	25	*32	*40	*47	*59	171	*80	1113
PE SCHEDULES 40 & 80	Part #		112	*17	'20	25	*32	*40	47	±59	<i>!7</i> 1	*80	£113
PP SCHEDULES 40 & 80	Part #		*12	*17	*20	*25	*32	*40	*47	159	*71	*80	1113
PVDF SCHEDULE 80	Part #			117	*20	*25	*32	*40	*47	*59	771	*80	1113
PB SCHEDULE 80	Part #			*17	20	25	*32	*40	'47	159	171	180	*113
FIBERGLASS REINFORCED PIPE STANDARD & EXTRA HEAVY	Part #				*20	125	*32		*47	159			

TYPE OF PIPE		NOMINA	L PIPE	SIZE/	ACTU/	AL PIPE	OUTSIE	E DIAM	METER				
A CONTRACTOR OF		1/8" ID	1/4"	3/8"	1/2"	3/4"	1"	11/4"	11/2"	2"	21/2"	3"	4"
METAL		.405" OD	.540"	.675"	.840"	1.050"	1.315"	1.660"	1.900"	2.375"	2.875"	3.500"	4.500"
GALVANIZED CARBON STEEL SCHEDULES 55, 105, 40 & 80	Part #	*10	'12	*17	'20	25	*32	40	*47	159	*71	*80	*113
STAINLESS STEEL SCHEDULES 5s, 10s, 40-& 80	Part #	10	112	117	*20	25	*32	*40	*47	*59	771	*80	*113
RED & YELLOW BRASS & COPPER REGULAR & EXTRA STRONG	Part #	*10	*12	*17	*20	25	*32	16	*47	*59			
ALUMINUM 5s, 10s, 40 & 80	Part #	*10	112	*17	*20	25	*32	*40	*47	*59	*71	*80	*113





Tube.

TYPE OF TUBE			NC	MINA	L TUE	BE SIZ	E/AC	TUAL	TUBE	OUTS	SIDE D	IAME	TER							
400000			1/4"	3/8"	1/2"	5/8"	3/4"		1"		11/4"		11/2"		2"		21/2"	3"	31/2"	4"
COPPER		.3125″	.375″	.500"	.625″	.750″	.625″	1.00″	1.125″	1.250″	1.375″	1.50″	4.625″	2.00″	1.125″	2.50″	2.625″	3.125"	3.625″	4.125″
ACR	Part #		#10	#12	#15	#1 <i>7</i>	#22		#28		#32		#40		#51		#63	<i>#7</i> 1	#90	#101
REFRIGERATION SERVICE	Part #	#8	#10	#12	* 15	*1 <i>7</i>	#22		*28		#32		*40							
TYPE K, L, M	Part #		#10	#12	#15	*1 <i>7</i>	#22		#28		#32		*40		* 51		#63	<i>*7</i> 1	#90	#101
DWV	Part #										#32		#40		#51		#63	<i>#7</i> 1	#90	#101

TYPE OF TUBE			NC	MINA	L TUE	E SIZ	E/AC	TUAL	TUBE	OUTS	SIDE D	IAME	TER							
OTHER			1/4"	3/8"	1/2"	5/8"	3/4"		1"		11/4"		11/2"		2"		21/2"	3"	31/2"	4"
MATERIALS		.3125″	.375″	.500″	.625″	.750"	.625″	1.00″	1.125″	1.250″	1.375″	1.50″	4.625″	2.00″	1.125″	2.50″	2.625	"3.125′	3.625"	4.125″
GALVANIZED STEEL	Part #	#8	#10	#12	#15	#1 <i>7</i>	#22	#25		#32		#36		# 51	#51		#63	<i>*7</i> 1	#90	#101
STAINLESS STEEL	Part #	#8	#10	#12	#15	#1 <i>7</i>	#22	#25		#32		#36		#51	#51	#59	#63	#71	#90	#101
ALUMINUM	Part #	#8	#10	#12	#15	#1 <i>7</i>	#22	#25		#32		#36		#51						

TYPE OF TUBE		NOMINAL TUBE SIZE/ACTUAL TUBE OUTSIDE DIAMETER																		
PLASTIC			1/4"	3/8"	1/2"	5/8"	3/4"		1"		11/4"		11/2"		2"		21/2"	3"	31/2"	4"
		.3125″	.375″	.500"	.625″	.750"	.625″	1.00″	1.125″	1.250″	1.375″	1.50″	4.625″	2.00"	1.125″	2.50″	2.625″	3.125″	3.625″	4.125″
POLYBUTYLENE	Part #			#12	#15		#22		#28		#32		#40		#51		#63	<i>#7</i> 1	#90	#101
PVC	Part #				#15		#22		#28		#32		#40	#51						
POLYETHYLENE	Part #			#12	#15		#22		#28		#32		#40	#51						
DWV	Part #				#15						#32		#40		# 51		#63	#71	#90	#101
	Part #	see manufacturers sales information for sizing information																		







MORE PARTS IN MORE PLACES

CLIC SIDE-KICKS

SELECTION CHARTS.

NOM'L DIAM.	EMT		PIPE	TUBE		
TRADE SIZE	EMT	RIGID & IMC PVC 40 & 80	SCHEDULE 40 & 80 PLASTIC & METAL	COPPER & PLASTIC		
1/8"			CUC #10 - X88.10 100 pcs./ctn.	CLIC #8 - X88.08 ⁵ / ₁₆ " O.D. Ref. Serv. 100 rcs./ctn.		
1/4"			CUC #12 - X88.12 100 pcs./cnv.	CLIC #10 - X88.10 1/4" x 3/8" O.D. Ref. Serv. 100 PCS./CTN.		
3/8"			CLIC #17 - X88.17 100 pcs./ctn.	CUC #12 - X88.12 $^{3}/_{8}$ " x $^{1}/_{2}$ " O.D. Ref. Serv. 100 Pcs./CTN.		
1/2"	CLIC #17 - X88,17 100 pcs./ctN.	CLIC #20 - X88.20 100 rcs./ctn.	CLIC #20 - X88.20 100 pcs./ctn.	CUC #15 $-$ X88.15 $^{1}/_{2}$ " x $^{5}/_{8}$ " O.D. Ref. Serv. 100 PCS./CTN.		
5/8"				CLIC #17 - X88.17 5/8" x 3/4" O.D. Ref. Serv. 100 PCS./CTN.		
3/4"	CIIC #22 - X88,22 100 pcs./ctn.	CLIC #25 — X88,25 50 pcs./ctn.	CLIC #25 - X88.25 50 PCS./CTN.	CUC #22 - X88.22 $^{3}/_{4}$ " x $^{7}/_{8}$ " O.D. Ref. Serv. 100 pcs./ctn.		
1"	CLIC #28 - X88,28 50 PCS./CTN.	CUC #32 - X88.32 50 pcs./ctn.	CLIC #32 - X88.32 50 Pcs./CTN.	CLIC #28 – X88.28 1" x 1"4" O.D. Ref. Serv. 50 PCS./CTN		
11/4"	CLIC #36 - X88.36 50 Pcs./cTN.	CUC #40 - X88,40 25 pcs./ctn.	CUC #40 - X88.40 25 pcs./cin.	CUC #32 - X88.32 1 1 x 1 3 4 O.D. Ref. Serv. 50 PCS./CTN.		
11/2"	CLIC #40 - X88.40 25 Pcs./ctN.	CLIC #47 - X88;47 25 pcs./ctn.	CLIC #47 – X88.47 25 pcs./cin.	CUC #40 - X88,40 11/4" x 13/4" O.D. Ref. Serv. 25 PCS./CTN.		
2"	CUC #51 - X88.51 25 Pcs./ctN.	CUC #59 - X88.59 20 pcs./ctn.	CUC #59 - X88.59 20 Pcs./cTN.	CUC #51 - X88.51 2" x 21/4" O.D. Ref. Serv. 25 PCS./CIN.		
21/2"	CUC #71 - X88.71 25 PCS./CTN.	CLIC #71 - X88,71 25 pcs./cm.	CLIC #71 - X88.71 25 rcs./cm.	CLIC #63 – X88.63 2 1/4" x 2 1/4" O.D. Ref. Serv. 25 PCS./CIN.		
3"	CLIC #80 - X88.80 25 PCS./CTN.	CLIC #80 - X88.80 25 PCS./CTN.	CLIC #80 - X88.80 25 pcs./ctv.	CLIC #71 – X88.71 3" x 31/4" O.D. Ref. Serv. 25 PCS./CIN.		
31/2"	CLIC #101 - X88.101 25 pcs./cm.	CUC #101 - X88.101 25 pcs./ctn.	CUC #101 - X88.101 25 pcs./ctn.	CUC #90 - X88.90 3 ¹ / ₄ " x 3 ⁵ / ₄ " O.D. Ref. Serv. 25 RCS./CIN.		
4"	CUC #113 - X88.113 25 rcs./ctn.	CLIC #113 - X88.113 25 pcs./ctn.	CLIC #113 - X88.113 25 pcs./ctn.	CLIC #101 - X88.101 4" x 4"/4" O.D. Ref. Serv. 25 PCS./CIN.		





Grounding of the National Electric Code® Table 250-95. Made to copper tube and other tube dimensions

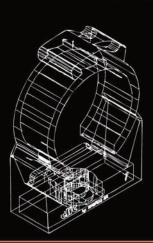
Note:

The outside diameter of THHN and TWW varies with the manufacturer.

Bare stranded copper is to ASTM.

	CLIC & GROUNDING CONDUCTORS									
COPPER WIRE SIZE	PART # BARE STRANDED COPPER O.D		PART #	THHN O.D.	PART #	THW O.D.				
#6					*8	0.310*				
#4			*8	0.330"- 0.340"	*8	0.360"				
#3			*8	0.360*-0.370*	*10	0.390"				
#2	*8	0.292*	*10	0.390"- 0.400"	*10	0.420"				
#1	*8	0,332"	*10	0.450"- 0.460"	*12	0.490"-0.500"				
#1/0	*8	0.373"	*12	0.490"-0.500"	*12	0.530"- 0.540"				
#2/0	*10	0.419"	*12	0.540*- 0.550*	*15	0,580*-0.590*				
#3/0	*12	0.470"	*15	0.590"- 0.600"	*15	0.630"- 0.640"				
#4/0	*12	0.528"	*15	0.650"- 0.660"	*17	0.690"-0.700"				
250 MCM	115	0.575"	*17	0.720"- 0.730"	*17	0.770"- 0.780"				
350 MCM	*17	0.681*	*20	0.820"- 0.840"	*22	0.870"- 0.880"				
400 MCM	*17	0.728*	*22	0.880*	*22	0.920"- 0.930"				
500 MCM	*20	0.813*	*25	0.960"- 0.970"	*25	1.010" - 1.100"				
750 MCM	*25	0.998*	*28	1.180*	*28	1.230*				
1000 MCM	*28	1.152"	*32	1.330*	*32	1.380*				

CONTACT INFORMATION.



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