

ACR-L Straight Length Bendable Copper Tubing



SPECIAL FEATURES

Field Bendable: Typically eliminates purchased elbow fittings and allows for field bending without annealing.

Field Swageable: Typically eliminates purchased couplings and two brazes per coupling; requires only a single braze for each swaged joint.

Cleaned and Plugged: All straight lengths are cleaned, eddy current tested, and plugged.

Fewer Leak Opportunities: By eliminating one brazed joint per coupling and eliminating field brazed elbows, the potential number of leak points is greatly reduced.

Compatible on-site Storage: Straight Lengths are 19' long to allow complete closure of job site containers.

Availability: Reftekk offers availability of bendable straight length ACR-L as a standard offering instead of special order.

PRODUCT

ACR / MED / Potable Water straight length seamless bendable copper tube. Field bendable and swageable tubing reduces brazed joints by roughly 50-80%, greatly reducing the number of potential leak points and improving installation time.

COPPER SPECS

Material: ACR / MED UNS C12200 Seamless Copper

Specifications: Meets the dimensional, chemical, mechanical strength, cleanliness and eddy current testing requirements of ASTM B75, ASTM B88, ASTM B280, ASTM B819, and NFPA 99, as applicable. Also meets NSF/ANSI 61-G for potable water. Tubing is sealed with plugs to maintain cleanliness.

Mechanical Strength: Minimum 36 ksi tensile strength per ASTM B88, ASTM B280, ASTM B819 and ASME B31.5.

Temper: Simultaneously both H55 (light-drawn) and H58 (general purpose drawn). H55 is a subset of H58.

Length: 19' straight lengths.

Dimensions & Tolerances: Meets ACR-L standards.

Refrigerants: All CFC, HCFC, HFC, HFO, and class A2L refrigerants and refrigeration oils. Can be used with R744 (CO2) with proper design pressure considerations.

NOT suitable for use with ammonia (R 717) or Methyl Chloride (R40) refrigerants.

⚠ CAUTION

▲ Use Reftekk approved swaging tool.

▲ Do not use Swing Benders or T-Benders.

▲ Do not flare.

▲ Use Reftekk approved bending tool.

▲ Do not swage 1/4" OD tubing.

NOTE: Quantities are estimates only. Contractor is responsible for quantities required on project.

Total Qty		Product #	Tube OD	Wall Thickness	Tube Length (ea.)	Min. Recommended Bend Radius (in.)	Recommended Bender
Each	Feet						
		HHC02	1/4"	0.030"	19 ft	0.937	Yellow Jacket 60390
		HHC03	3/8"	0.030"	19 ft	1.125	Imperial 370-FH
		HHC04	1/2"	0.035"	19 ft	1.500	
		HHC05	5/8"	0.040"	19 ft	2.188	
		HHC06	3/4"	0.042"	19 ft	2.625	Reftekk Digi-Bender
		HHC07	7/8"	0.045"	19 ft	3.063	
		HHC09	1-1/8"	0.050"	19 ft	3.938	
		HHC11	1-3/8"	0.055"	19 ft	4.813	
		HHC13	1-5/8"	0.060"	19 ft	5.688	TBD

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Important Installation Notes

GENERAL

- 1) Refer to Reftekk's website (<http://www.reftekk.com>) for additional information
- 2) Ensure piping is properly insulated and sealed to keep the piping system dry
- 3) Keep tubing plugged until final installation to maintain cleanliness
- 4) Store in clean dry environment and protect from mechanical damage
- 5) Do **NOT** store directly on concrete or bare metal
- 6) Do **NOT** flare
- 7) Do **NOT** direct bury (under concrete, earth, water, etc.)
- 8) Support intalled tubing per local code requirements and per authority having jurisdiction

BENDING

- 1) Use **ONLY** Reftekk recommended or approved tubing benders:

Recommended

- Yellow Jacket 60390 for tube sizes 1/4"
- Imperial 370-FH for tube sizes 3/8" thru 1/2"
- Reftekk Digi-Bender for tube sizes 5/8" thru 1-3/8"

Approved

- REMS Curvo
- REMS Curvo 50
- Lever-style hand-benders designed for O.D. tubing and having bending radii greater than or equal to the minimum recommended values

Do **NOT** use

- Any "swing" or "T" style benders
- Any benders with bending radii less than the minimum recommended values
- Any benders not designed for O.D. tubing (including conduit benders)

- 2) Refer to Reftekk Digi-Bender Instruction manual for complete safety and operating instructions.
- 3) Do **NOT** attempt to un-bend or re-bend any previous bends

SWAGING

- 1) Use **ONLY** Reftekk SwageX swage expander for brazing applications
 - Refer to operations manual for complete safety and operating instructions.
 - SwageX socket depth is only for use on BRAZED joints
 - Do **NOT** use for soldered joints
- 2) Tubing **MUST** be cut square with sharp tubing cutter and properly de-burred
 - Do **NOT** expand (swage) tubing that has not been de-burred