

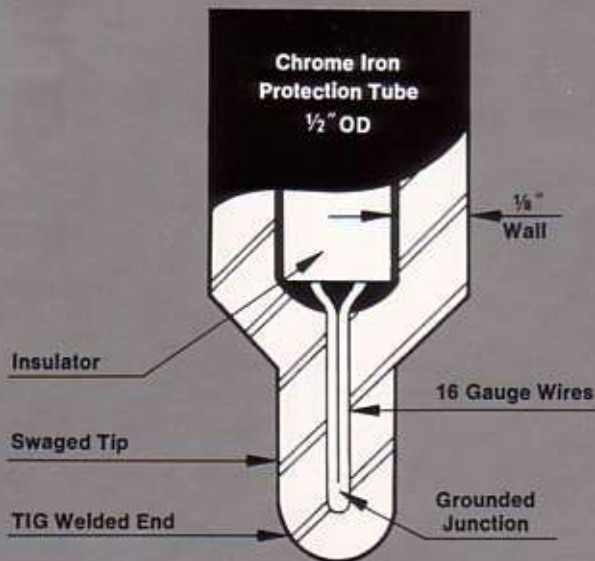
Marshall thermocouples give fast, accurate and low cost temperature readings

Standard of the Industry

Marshall originated the enclosed-tip thermocouple. Constantly improved and refined, the Marshall design has never been surpassed for accurate and reliable readings.

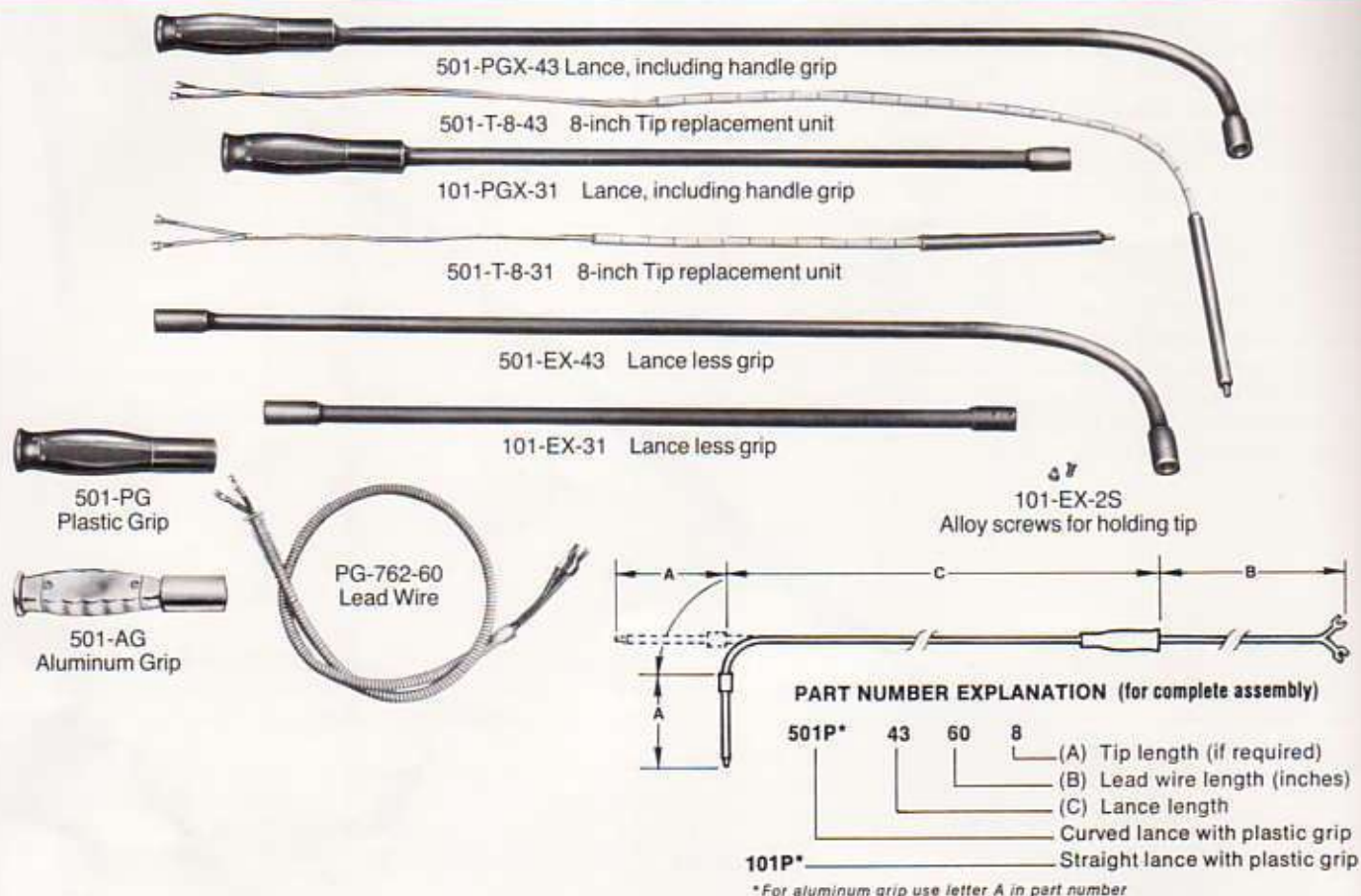
A combination of Marshall's original armored tip construction and economical replacement assures quick, precise temperature readings at lowest cost per reading.

The 16 gauge Type K wires are swaged directly into the protection tube, providing a rapid response hot junction. The wires cannot be contaminated from the melt or short circuited by slag. Several hundred readings in nonferrous melts at temperatures up to 2300°F are common before a simple low cost replacement is necessary.





Thermocouple Parts List



Curved Lance (90° Bend*)

with grip		without grip
501-PGX-31	31 inch model	501-EX-31
501-PGX-43	43 inch model	501-EX-43
501-PGX-55	55 inch model	501-EX-55
501-PGX-72	6 foot model	501-EX-72
501-PGX-96	8 foot model	501-EX-96
501-PGX-120	10 foot model	501-EX-120

*Special bends available on request.

Straight Lance

with grip		without grip
101-PGX-31	31 inch model	101-EX-31
101-PGX-43	43 inch model	101-EX-43
101-PGX-55	55 inch model	101-EX-55
101-PGX-72	6 foot model	101-EX-72
101-PGX-96	8 foot model	101-EX-96
101-PGX-120	10 foot model	101-EX-120

Lead wires**

PG-762-40	40 inch
PG-762-60	5 foot
PG-762-120	10 foot
PG-762-180	15 foot

**Other lengths available on request.

PG-762-240	20 foot
PG-762-300	25 foot
PG-762-360	30 foot

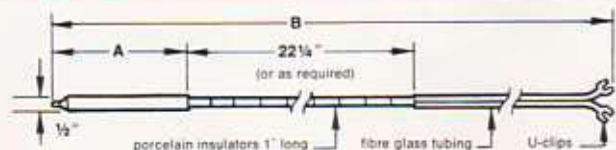
Lead wire assemblies for use with aluminum grip (501-AG) use Part No. R-762 plus length.

Typical tip replacement units

No. 501-T series are 8" tips	"A" inches	"B" inches	for use in lance length
501-T-8-31	8	36	31 in.
501-T-8-43	8	49	43 in.
501-T-8-55	8	61	55 in.
501-T-8-72	8	79	6 ft.
501-T-8-96	8	103	8 ft.
501-T-8-120	8	127	10 ft.

No. 701-T series are the longer tips: 12", 15", 24" and 30". Specify 701-T plus tip length followed by lance length in inches, as shown in examples below:

701-T-12-72	12	83	6 ft.
701-T-15-55	15	68	55 in.
701-T-20-43	20	61	43 in.
701-T-24-96	24	119	8 ft.



ECEFast Part Numbers commonly stocked are as follows

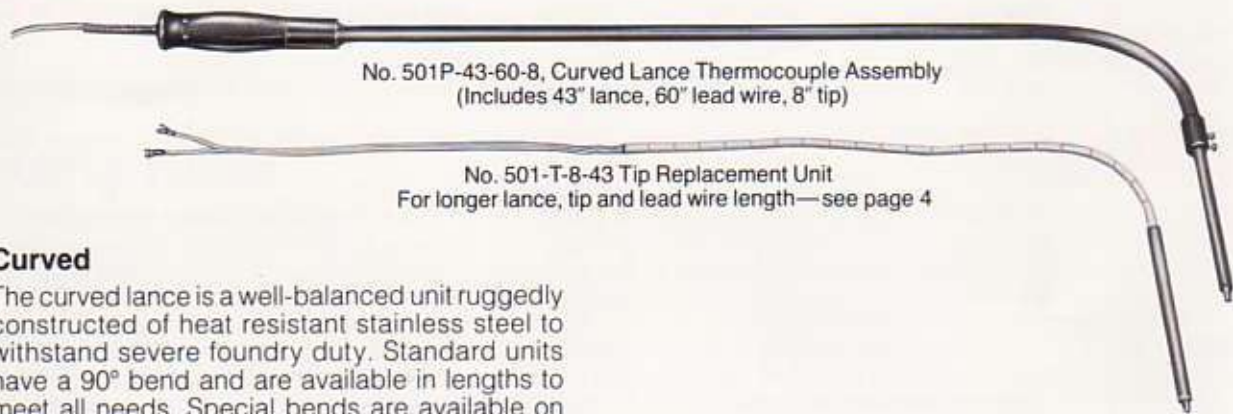
- MS-501-T-8-43 200mm replacement tip for 43 inch lance
- MS-701-T-12-43 300mm replacement tip for 43 inch lance
- MS-501-PGX-43/C Complete 90 deg assy - lance, tip & lead
- MS-101-PGX-43/C Complete straight assy - lance tip and lead
- MS-501-EXTEND Complete 90 deg assy with extended handle



The Marshall Lance

The heavy duty, stainless steel Marshall lance is an important accessory to the Marshall Thermocouple. It is designed for ease of use and carefully constructed to allow for expansion and contraction of the wires during the heat-

ing and cooling cycle. The grip has a built-in terminal strip for attaching the thermocouple and extension wires. Two stainless steel screws are provided for holding the tip in place.



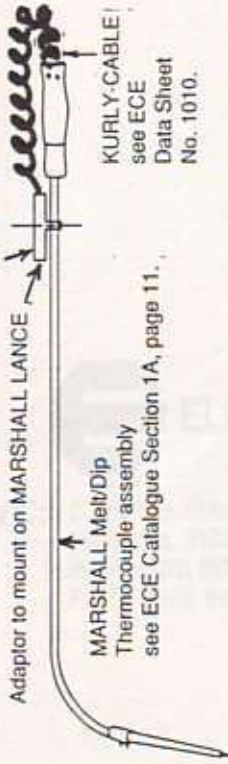
No. 501P-43-60-8, Curved Lance Thermocouple Assembly
(Includes 43" lance, 60" lead wire, 8" tip)

No. 501-T-8-43 Tip Replacement Unit
For longer lance, tip and lead wire length—see page 4

Curved

The curved lance is a well-balanced unit ruggedly constructed of heat resistant stainless steel to withstand severe foundry duty. Standard units have a 90° bend and are available in lengths to meet all needs. Special bends are available on request.

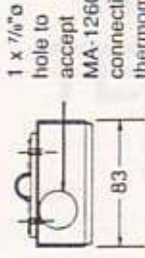
ANRITSU
H.H Digital Thermometer
HL600 — see ECE Catalogue Section 8, page 1.



Stainless saddle
to clamp
onto 1/2" Ø
shaft of
lance.



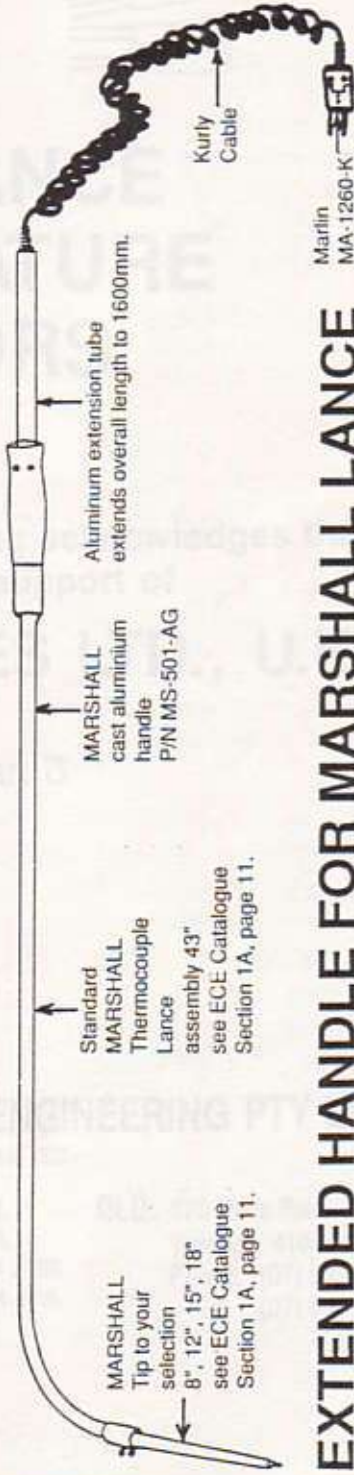
Material: 304SS Sheet 18g.



ADAPTOR FOR MARSHALL LANCE

ECE ORDERING PART NUMBER:
MS-501-Adaptor

ECE ORDERING PART NUMBER:
for entire assembly
MS-501-PGX-Special



EXTENDED HANDLE FOR MARSHALL LANCE

Marlin
MA-1260-K