

Field Service Kit for Installations

Tools:

Item:	Description / Notes:
Cordless Drill w/ bits	Drill bit set, hole bit set
Reciprocating Saw / Hacksaw	Must be able to cut metal, PVC
Screwdrivers - Phillips and Flat	Very small flat head required for terminal blocks (eg. 3/32")
Multi Functional Wire Strippers	Cut / clean / strip wire ends
Ratchet and Deep Well Socket Set	Metric and SAE required
Multimeter (CAT III or IV) - <i>replacement fuses recommended</i>	Must have current loop and continuity testing capabilities; must read DC voltage and amperage
Vice Grips / Locking Pliers	Set of 3 (needle nose most important)
Misc Wrenches	8"-12" adjustable and 18" (min.) pipe wrench
4-20mA Signal Generator	
RS 485 to Serial USB	
Additional basic misc. tools	Hammer, tape measure, utility knife, pry bar, etc. for general tasks; permanent marker recommended

Consumables:

Item:	Description / Notes:
Butt splices	Small kit is okay
Heat shrink	Multi-color kit recommended
Cord grips	½" and ¾" are most commonly used
Solid core wire spools	14awg and 18awg required
Cable management	Cable glands, wrap, clamps needed
Cable ties	6" - 12" most commonly used
Hose clamps	½" band width or greater
Din rail	Type 2 or 3
Waterproofing	Polywater conduit sealant / Duxseal
Misc. Consumables	Electrical tape, towels / rags