

C1TR-(x) Specification Sheet

SHEET # 940-2C030

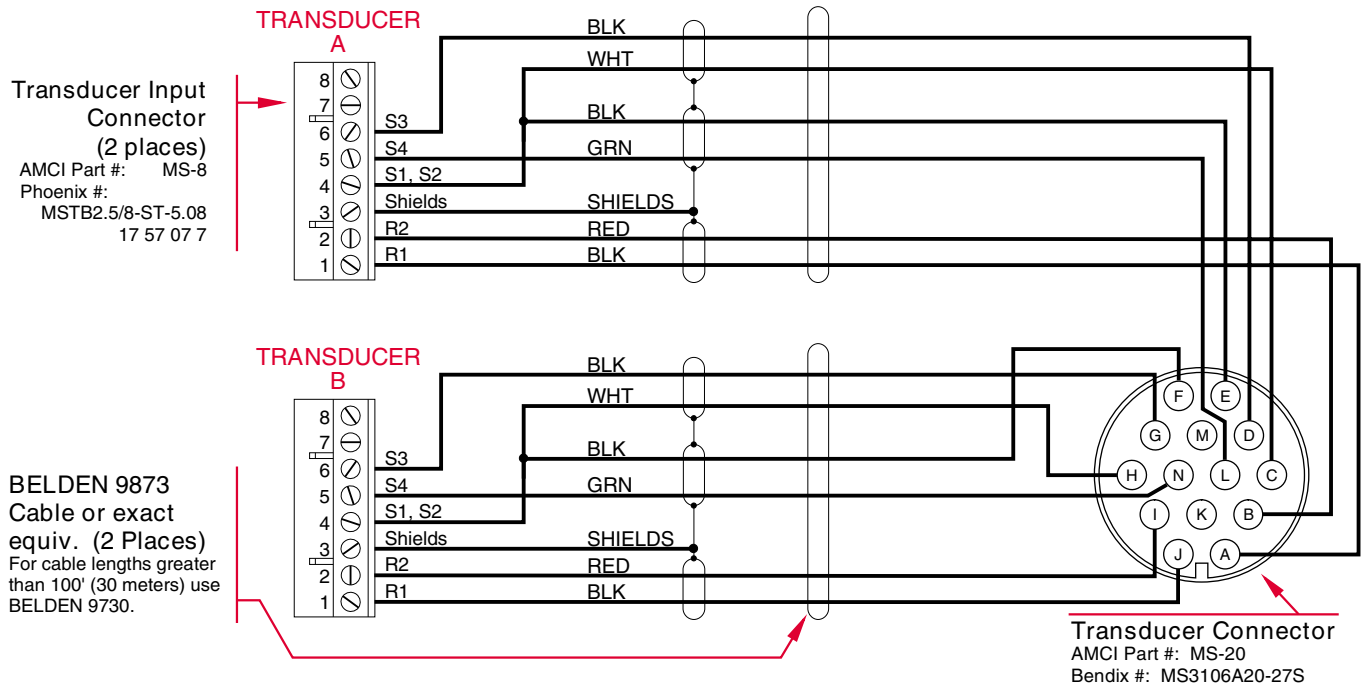
DESCRIPTION

The C1TR-(x) cable is for use with the HTT-20-1 redundant resolver transducer.

The (x) in the part number denotes the lengths of the two cables in feet. {A C1TR-25 has two cables, each 25 feet (7.6 meters) long.}

Note that the C1TR-(X) cable is wired for use with most AMCI PLC plug-in modules and Nexus Controllers. It must be rewired for iPLC or Genesis Controller applications and some PLC plug-in modules with different style connectors. These connectors are supplied with the PLC plug-in module. For correct connections, please see the single turn cable wiring diagram in the installation section of the controller's manual.

PIN OUT DRAWING



TECHNICAL DATA

One of two cable types is used for the C1TR cable. For cable length under 100 feet, Belden 9873 or exact equivalent is used. For cable lengths over 100 feet, Belden 9730 or exact equivalent is used. The reason for the change is because of cable capacitance that causes a phase shift in the resolver signals. The 9730 has a much lower cable capacitance because of its smaller conductors, (24AWG instead of the 9873's 20AWG), but these smaller conductors can also make it harder to install.

If you are making your own cable, Belden 9730 can be used for any length.

If you need a high temperature cable, AMCI suggests using Belden 89730 cable with foamed Teflon insulation. AMCI's FAQ "What Transducer Cable Can I Use In High Temp or High Flex Applications?" gives installation guidelines on the 89730 cable. This document can be found in the FAQ section of our website, www.amci.com.

	Belden Cable Number	
	9873	9730
Max. Cable Length	100 ft.	1000 ft.
Wire Gauge	20 AWG (7X28 Stranded)	24 AWG (7X32 Stranded)
Jacket Insulation Material	PVC	PVC
Wire Insulation Material	Polyethylene	Polyethylene
Temp. Rating	-20°C to +60°C	-20°C to +60°C
Capacitance	30.0 pF/ft.	12.5 pF/ft.