

CABLE ASSEMBLIES

For ease of interfacing our LVDTs and RVDTs with our Electronic Signal Conditioners, or with other devices, we offer a variety of cable assemblies. Our cables are shielded and designed for optimum performance under industrial environments. This brochure contains information on the devices they interface with, and the wire configurations and colors.



LIST OF CABLE ASSEMBLIES AND USE

Part No.	For Transducer	To connect to	AC/DC LVDT
04290417-000	HCA, HCI, GCA, R-36AS	LVM-110, LiM-4-20	AC
	HC-485, GC-485	User's reading device	
04290600-000	HCA, HCI, GCA, R-36AS	LDM-1000, PML-1000	AC
04290595-000 (High Temperature)	HCA, HCI, GCA, R-36AS	LDM-1000, PML-1000 Cable: 200°C (392°F) Connector: 125°C (257°F)	AC
04290457-000	HCA, HCI, GCA, R-36AS	ATA-2001	AC
04290133-000	HCA, HCI, GCA, R-36AS	IEM-422	AC
04290560-000	HCA, HCI, GCA, R-36AS	MP-2000	AC
04290594-000	MP Series	IEM-422	AC
04290582-000	LBB with option -001	LVM-110, LiM-4-20	AC
04290596-000	LBB with option -001	LDM-1000, PML-1000	AC
04290562-000	LBB with option -001	MP-2000	AC
04290577-000	LBB with option -001	ATA-2001	AC
04290565-000	LBB with option -004	ATA-2001	AC
04290552-000	HCD, GCD, HCT, GCT	User's reading device	DC
04290583-000	HCD, GCD, HCT, GCT	User's reading device	DC
04290579-000	HCD, GCD, HCT, GCT	Extension cable	DC
04290589-000	GCD-SE	User's reading device	DC

Note: Cables are 10 foot long. Contact the factory for different lengths made to order.

WIRING INFORMATION FOR CABLES WITH STRIPPED AND TINNED LEADWIRE ENDS

Shield connections

The shield drain connections depend on the application. In some cases the shield needs to be connected to an earth connection, usually at only one end of the cable, but some cases would require both.

Connecting the shield drain wires for AC LVDTs

Shield drain wire should be connected to the electrical ground terminal on the signal conditioner, if available. If worse performance (noise level) is observed after connection, try connecting it to an earth ground. If both results are worse than when not connected, it is acceptable to leave it 'lifted' (not connected).

Connecting the shield drain wires for DC LVDTs

Connect the shield drain to the common of the power supply. If worse performance is observed after connection, try connecting the drain wire to an earth ground if available. If worse results are observed after connection, leave it 'lifted'.

Connecting the lead-wires for AC LVDTs:

Part No.	RED	YELLOW	BLACK	BLUE	GREEN	WHITE
04290417-000	Secondary 1	Sec. Center Tap	Secondary 2	Primary		Primary
04290600-000	Pair 1 Primary		Pair 1 Primary			
	Pair 2 Secondary 1		Pair 2 Secondary 2			
04290595-000	Secondary 1		Secondary 2		Primary	Primary
04290594-000	Secondary Terminal 3		Secondary Terminal 6		Primary Terminal 1	Primary Terminal 2
	<i>Note: Connect MP Series LVDT Terminals 4 and 5 together (Center Tap)</i>					
04290582-000	Secondary 1		Secondary 2	Primary	Center Tap	Primary
04290596-000	Secondary 1		Secondary 2		Primary	Primary

Connecting the lead-wires for DC LVDTs:

Part No.	RED	BLACK	GREEN	WHITE
04290552-000	Signal Output	Common	+VDC Supply	–VDC Supply
04290583-000	+VDC Supply	–VDC Supply	Common	Signal Output
04290589-000	+VDC Supply	Supply common	Signal Common	Signal Output

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