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53A-716 DATA CABLE

OPERATING MANUAL

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53A-716 DATA CABLE

OPERATING MANUAL

DESCRIPTION

The 53A-716 Data Cable is a two meter long cable terminated at one end with a 53A-780 hooded Connector assembly and at the other end with an IEEE STD 488 connector. The 53A-716 Cable is used with either the 53A-127 Communications Card, the 53A-128 Communications Card, the 53A-130 Communications Card with a 53A-138 IEEE-488 Option, or the 53A-488 IEEE-488 Bus Controller Function Card. When used with the 53A-127 Card, 53A-128 Card or 53A-130/53A-138 Cards the cable interfaces a 53/63 Series Card Cage to the calculator or computer used to control the IEEE-488 Bus. When used with the 53A-488 Function Card, the cable interfaces the 53A-488 Card to the IEEE-488 equipment to be controlled by the 53A-488 Card.

INSTALLATION

The blue connector marked "53A-716" plugs onto either the 53A-127 Communications Card, 53A-128 Communications Card, 53A-130 Communications Card with 53A-138 Option, or the 53A-488 Bus Controller Function Card such that the cable egresses out the rear of the 53/63 System Mainframe between the instrument case bottom cover and the mainframe false floor. The IEEE STD 488 connector is then used to connect the Communications Cards or 53A-488 Card to other devices on the IEEE-488 Interface Bus.

CABLE CONNECTIONS

IEEE STD 488

The Interface Bus uses 16 signal lines to connect all units of a system in parallel. Eight of the bus lines carry data bits; three of the lines coordinate the flow of data. The remaining five lines are bus management lines.

The following table lists the 16 bus signals together with ground signals, and indicates the hooded connector pin numbers and the IEEE-488 connector pin numbers.

Signal		Hooded Connector Pin No.	IEEE-488 Pin No.
ATN	ATTENTION	8	11
SRQ	SERVICE REQUEST	9	10
EOI	END OR IDENTIFY	12	5
NDAC	NOT DATA ACCEPTED	11	8
NRFD	NOT READY FOR DATA	10	7
DAV	DATA AVAILABLE	13	6
REN	REMOTE ENABLE	6	17
IFC	INTERFACE CLEAR	7	9
DIO1	DATA INPUT/OUTPUT 1	C	1
DIO2	DATA INPUT/OUTPUT 2	3	2
DIO3	DATA INPUT/OUTPUT 3	2	3
DIO4	DATA INPUT/OUTPUT 4	B	4
DIO5	DATA INPUT/OUTPUT 5	E	13
DIO6	DATA INPUT/OUTPUT 6	5	14
DIO7	DATA INPUT/OUTPUT 7	D	15
DIO8	DATA INPUT/OUTPUT 8	4	16
SHIELD		24	12
GROUND	LOGIC	BB	24
GROUND	(TWSTD W/IFC)	H	21
GROUND	(TWSTD W/ATN)	J	23
GROUND	(TWSTD W/SRQ)	K	22
GROUND	(TWSTD W/NRFD)	L	19
GROUND	(TWSTD W/NDAC)	M	20
GROUND	(TWSTD W/DAV)	P	18

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