

E	3	7	6	5		4	3	2 1
	3M 3749-20 Cable		· ·	ess X16 Pin-Out		3M 3749-20		
	Wire # Pin Attachment Ol Ground Layer	#	Pin # Side B Description B01 +12 volt power	Side A Description Hot plug presence dete		Pin Attachment Ground Layer	# Wire #   O1	
	02 B01 - B02		B02 +12 volt power	+12 volt power	A02	AO 1	02	
	03 B01 - B02 04 B01 - B02		B03 +12 volt power B04 Ground	+12 volt power Ground	A03 A04	Ground Layer A02 - A03	03	
	05 B01 - B02		BOS SMBus clock	TCK	A05	A02 - A03	05	
	06 B01 - B02 07 B01 - B02		B06 SMBus data B07 Ground	TDI TDO	A06 A07	A02 - A03 A02 - A03	06	
	08 Ground Layer		B08 +3.3 volt power	TMS	A08	Ground Layer	08	
	10 B06		B09 +TRST# B10 3.3v volt power	+3.3 volt power +3.3 volt power	A09 A10	A05 A06	09	
	11 Ground Layer		B11 Link Reactivation	Power Good	A11	A07	11	
	13 B08		B12 Reserved	nanical Key Ground	A12	A08 Ground Layer	12	
	14 B09		B13 Ground	Reference Clock	A13	A09 - A10	14	
	16 B10		B14 Transmitter Lane 0, B15 Differential pair	Differential pair Ground	A14 A15	A09 - A10 A09 - A10	15	
	17 Ground Layer		B16 Ground B17 Hotplug detect	Receiver Lane 0,	A16 A17	A09 - A10	17	
	19 Ground Layer		B17 Hotplug detect B18 Ground	Differential pair Ground	A18	Ground Layer Ground Layer	18	
	20 B12		B19 Transmitter Lane 1,	Reserved	A19 A20	A 1 1	20	
	3M SL8802 Cable		B20 Differential pair B21 Ground	Ground Receiver Lane 1,	A21	3M SL8802	Cable	
	Wire # Pin Attachment		B22 Ground B23 Transmitter Lane 2,	Differential pair	A22 A23	Pin Attachment	# Wire #	
	GND Ground Layer pr_01 B14		B23 Transmitter Lane 2, B24 Differential pair	Ground Ground	A24	Ground Layer A13	GND pr_01	
	pr_01 B15		B25 Ground	Receiver Lane 2,	A25	A14	pr_01	
	pr_02 B17 pr_02 Ground Layer		B26 Ground B27 Transmitter Lane 3,	Differential pair Ground	A26 A27	A 1 6 A 1 7	pr_02 pr_02	
	pr_03 B19		B28 Differential pair B29 Ground	Ground Receiver Lane 3,	A28 A29	Ground Layer	pr_03	
C	pr_03 B20 pr_04 B23		B30 Reserved	Differential pair	A30	A19 A21	pr_03 pr_04	
	pr_04 B24		B31 Hot plug detect B32 Ground	Ground Reserved	A31 A32	A22	pr_04	
	GND Ground Layer pr_05 B27		B33 Transmitter Lane 4,	Reserved	A33	Ground Layer A25	GND pr_05	
	pr_05 B28 pr_06 B30		B34 Differential pair B35 Ground	Ground  Receiver Lane 4,	A34 A35	A26 A29	pr_05 pr_06	
	pr_06 B31		B36 Ground	Differential pair	A36	A30	pr_06	
	pr_07 B33 pr_07 B34		B37 Transmitter Lane 5, B38 Differential pair	Ground Ground	A37 A38	A32 A33	pr_07 pr_07	
	GND Ground Layer		B39 Ground	Receiver Lane 5,	A39	Ground Layer	GND	
	pr_08 B37 pr_08 B38		B40 Ground B41 Transmitter Lane 6,	Differential pair Ground	A40 A41	A35 A36	pr_08 pr_08	
	pr_09 B41		B42 Differential pair	Ground	A42	A39	pr_09	
	pr_09 B42 pr_10 B45		B43 Ground B44 Ground	Receiver Lane 6, Differential pair	A43 A44	A40 A43	pr_09 pr_10	
	pr_10 B46		B45 Transmitter Lane 7,	Ground	A45	A44	pr_10	
	pr_11 B48 pr_11 Ground Layer		B46 Differential pair B47 Ground	Ground  Receiver Lane 7,	A46 A47	A47 A48	pr_11 pr_11	
	GND Ground Layer		B48 Hot plug detect	Differential pair	A48	Ground Layer	GND	
	3M SL8802 Cable		B49 Ground B50 Transmitter Lane 8,	Ground Reserved	A49 A50	3M SL8802	Cablo	
	Wire # Pin Attachment	#	B51 Differential pair	Ground	A51	Pin Attachment		
B	GND Ground Layer pr_01 B50		B52 Ground B53 Ground	Receiver Lane 8, Differential pair	A52 A53	Ground Layer	GND pr_01	
	pr_01 B51		B54 Transmitter Lane 9,	Ground	A54	Ground Layer	pr_01	
	pr_02 Ground Layer pr_02 Ground Layer		B55 Differential pair B56 Ground	Ground Receiver Lane 9,	A55 A56	A52	pr_02 pr_02	
	pr_03 B54		B57 Ground	Differential pair	A57	Ground Layer	pr_03	
	pr_03 B55 pr_04 B58		B58 Transmitter Lane 10, B59 Differential pair	Ground Ground	A58 A59	Ground Layer A56	pr_03 pr_04	
	pr_04 B59		B60 Ground	Receiver Lane 10,	A60	A57	pr_04	D 84237 APR 23,2019 LDS 1
	GND Ground Layer pr_05 B62		B61 Ground B62 Transmitter Lane 11,	Differential pair Ground	A61 A62	Ground Layer A60	GND pr_05	C 77002 DEC 14,2017 AD L
	pr_05 B63		B63 Differential pair B64 Ground	Ground Receiver Lane 11	A63 A64	A61	pr_05	PIN DEFINITION A50
	pr_06 B66 pr_06 B67		B64 Ground B65 Ground	Receiver Lane 11, Differential pair	A65	A64 A65	pr_06 pr_06	WAS A33, ZONE B4, SH2; ADDED SH3 WARRANTY INFO
	pr_07 B70		B66 Transmitter Lane 12, B67 Differential pair	Ground	A66 A67	A68	pr_07	B 48418 JUN 19,2013 LDS 1
	pr_07 B71 GND Ground Layer		B67 Differential pair B68 Ground	Ground Receiver Lane 12,	A68	A69 Ground Layer	pr_07 GND	ADDED SIDE A & SIDE B INDICATORS
	pr_08 B74		B69 Ground B70 Transmitter Lane 13,	Differential pair Ground	A69 A70	A72	pr_08	A 46893 MAR 27,2013 LDS 1
	pr_08 B75 pr_09 Ground Layer		B71 Differential pair	Ground	A71	A73 A76	pr_08 pr_09	WORK REQUEST 11618  INITIAL RELEASE
	pr_09 Ground Layer		B72 Ground B73 Ground	Receiver Lane 13, Differential pair	A72 A73	A77	pr_09	DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT C
A	pr_10   B78   pr_10   B79		B74 Transmitter Lane 14,	Ground	A74	Ground Layer Ground Layer	pr_10 pr_10	CODES  CHKD  CHCD  CHKD  CHKD
, ,	pr_11 B81		B75 Differential pair B76 Ground	Ground Receiver Lane 14,	A75 A76	A80	pr_11	DIVISION CODE  © 3M COPYRIGHT 2019  This document and the information it contains are
	pr_11 B82 GND Ground Layer		B77 Ground	Differential pair	A77	A81 Ground Layer	pr_11 GND	DO NOT  SCALE  DRAWING  SCALE  DRAWING  SCALE  1  TOLERANCES  EXCEPT AS  NOTED  St. Paul,  distributed without 3M permission, or used or disclosed other than for 3M authorized purposes.  All rights reserved.
			B78 Transmitter Lane 15, B79 Differential pair	Ground Ground	A78 A79			BRAWING I INCHES TITLE BKC5-0742-XXXX, CABL
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	.3mconnectors.com		B81 Hot plug present detect B82 Hot Plug Detect	Differential pair Ground	A81 A82			INTERPRET PER MILLIMETERS TO MALE PCIE X16
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