



TABLE 1	
LENGTH	TOLERANCE
<2M	+5CM/-0CM
2 TO 5M	+10CM/-0CM
>5M	+15CM/-0CM

CONNECTORS AND HARDWARE ²	
REF DES	DESCRIPTION
P1,P2,P3,P4	HIROSE IX INDUSTRIAL CONNECTOR, FEMALE, TYPE B OR EQUIVALENT
P5	68-POSITION VHDCI CONNECTOR, MALE
1	M2.0X0.4 THUMBSCREWS, METAL, SLOTTED AND KURLED

CABLE DETAILS				
REF DES	CONSTRUCTION	CONDUCTORS	INSULATION	JACKET
2	8 TWISTED PAIRS, WITH OVERALL SHIELD	30 AWG TINNED STRANDED COPPER (7/0.10MM, 0.30MM OD)	0.15MM THICK SRPVC, 0.60MM OD	1.00MM THICK PVC, 6.70MM OD

METRIC CUSTOMER DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS AND [INCHES]

NI.COM AUSTIN, TEXAS

DO NOT SCALE DRAWING THIRD ANGLE PROJECTION

TITLE SH68M-4IXBF DIO DIFF

SIZE CODE IDENT NO. MM/DD/YYYY D 7U296 08/19/2021

SCALE: 1/1 SHEET 1 OF 2

² PRODUCT AND COMPANY NAMES MENTIONED ARE TRADEMARKS OR TRADE NAMES OF THEIR RESPECTIVE COMPANIES.

1. REFER TO PRODUCT MANUAL ON NI.COM FOR MORE DETAILS.

NOTES: UNLESS OTHERWISE SPECIFIED.

WIRE LIST

LEAD	PAIR	P5 (VHDCI)	SIGNAL - VHDCI	SIGNAL - IX	COND.	COLOR	P1	P2	P3	P4	
1	0	65	DIO0	A	C0	RED	1				
		66	DGND	I (REF)	C1	WHITE	3				
	1	31	DIO1	B	C2	BROWN	2				
		32	DGND	I (REF)	C3	WHITE	3				
	2	63	DIO2	C	C4	ORANGE	4				
		64	DGND	I (REF)	C5	WHITE	3				
	3	29	DIO3	D	C6	YELLOW	5				
		30	DGND	I (REF)	C7	WHITE	3				
	4	61	DIO4	E	C8	GREEN	6				
		62	DGND	J (AUX)	C9	WHITE	8				
	5	27	DIO5	F	C10	BLUE	7				
		28	DGND	J (AUX)	C11	WHITE	8				
	6	59	DIO6	G	C12	VILOET	9				
		60	DGND	J (AUX)	C13	WHITE	8				
	7	25	DIO7	H	C14	GREY	10				
26		DGND	J (AUX)	C15	WHITE	8					
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN	SHELL					
2	0	57	DIO8	A	C16	RED		1			
		58	DGND	I (REF)	C17	WHITE		3			
	1	23	DIO9	B	C18	BROWN		2			
		24	DGND	I (REF)	C19	WHITE		3			
	2	55	DIO10	C	C20	ORANGE		4			
		56	DGND	I (REF)	C21	WHITE		3			
	3	21	DIO11	D	C22	YELLOW		5			
		22	DGND	I (REF)	C23	WHITE		3			
	4	53	DIO12	E	C24	GREEN		6			
		54	DGND	J (AUX)	C25	WHITE		8			
	5	19	DIO13	F	C26	BLUE		7			
		20	DGND	J (AUX)	C27	WHITE		8			
	6	51	DIO14	G	C28	VILOET		9			
		52	DGND	J (AUX)	C29	WHITE		8			
	7	17	DIO15	H	C30	GREY		10			
18		DGND	J (AUX)	C31	WHITE		8				
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN		SHELL				
3	0	49	DIO16	A	C32	RED			1		
		50	DGND	I (REF)	C33	WHITE			3		
	1	15	DIO17	B	C34	BROWN			2		
		16	DGND	I (REF)	C35	WHITE			3		
	2	47	DIO18	C	C36	ORANGE			4		
		48	DGND	I (REF)	C37	WHITE			3		
	3	13	DIO19	D	C38	YELLOW			5		
		14	DGND	I (REF)	C39	WHITE			3		
	4	45	DIO20	E	C40	GREEN			6		
		46	DGND	J (AUX)	C41	WHITE			8		
	5	11	DIO21	F	C42	BLUE			7		
		12	DGND	J (AUX)	C43	WHITE			8		
	6	43	DIO22	G	C44	VILOET			9		
		44	DGND	J (AUX)	C45	WHITE			8		
	7	9	DIO23	H	C46	GREY			10		
10		DGND	J (AUX)	C47	WHITE			8			
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN			SHELL			
4	0	41	DIO24	A	C48	RED				1	
		42	DGND	I (REF)	C49	WHITE				3	
	1	7	DIO25	B	C50	BROWN				2	
		8	DGND	I (REF)	C51	WHITE				3	
	2	39	DIO26	C	C52	ORANGE				4	
		40	DGND	I (REF)	C53	WHITE				3	
	3	5	DIO27	D	C54	YELLOW				5	
		6	DGND	I (REF)	C55	WHITE				3	
	4	37	DIO28	E	C56	GREEN				6	
		38	DGND	J (AUX)	C57	WHITE				8	
	5	3	DIO29	F	C58	BLUE				7	
		4	DGND	J (AUX)	C59	WHITE				8	
	6	35	DIO30	G	C60	VILOET				9	
		36	DGND	J (AUX)	C61	WHITE				8	
	7	1	DIO31	H	C62	GREY				10	
2		DGND	J (AUX)	C63	WHITE				8		
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN				SHELL		