



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

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

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	01.00MM 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 AO SE

SIZE: D 7U296

CODE IDENT NO.: MM/DD/YYYY 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	10	AO0	A	C0	RED	1				
		11	AO GND 0/1	I (REF)	C1	WHITE	3				
	1	44	AO1	B	C2	BROWN	2				
		11	AO GND 0/1	I (REF)	C3	WHITE	3				
	2	45	AO2	C	C4	ORANGE	4				
		46	AO GND 2/3	I (REF)	C5	WHITE	3				
	3	12	AO3	D	C6	YELLOW	5				
		46	AO GND 2/3	I (REF)	C7	WHITE	3				
	4	13	AO4	E	C8	GREEN	6				
		14	AO GND 4/5	J (AUX)	C9	WHITE	8				
	5	47	AO5	F	C10	BLUE	7				
		14	AO GND 4/5	J (AUX)	C11	WHITE	8				
	6	48	AO6	G	C12	VIOLET	9				
		49	AO GND 6/7	J (AUX)	C13	WHITE	8				
	7	15	AO7	H	C14	GREY	10				
49		AO GND 6/7	J (AUX)	C15	WHITE	8					
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN	SHELL					
2	0	16	AO8	A	C16	RED		1			
		50	AO GND 8/9/10	I (REF)	C17	WHITE		3			
	1	17	AO9	B	C18	BROWN		2			
		50	AO GND 8/9/10	I (REF)	C19	WHITE		3			
	2	51	AO10	C	C20	ORANGE		4			
		50	AO GND 8/9/10	I (REF)	C21	WHITE		3			
	3	52	AO11	D	C22	YELLOW		5			
		18	AO GND 11	I (REF)	C23	WHITE		3			
	4	53	AO12	E	C24	GREEN		6			
		20	AO GND 12/13	J (AUX)	C25	WHITE		8			
	5	54	AO13	F	C26	BLUE		7			
		20	AO GND 12/13	J (AUX)	C27	WHITE		8			
	6	21	AO14	G	C28	VIOLET		9			
		55	AO GND 14/15	J (AUX)	C29	WHITE		8			
	7	22	AO15	H	C30	GREY		10			
55		AO GND 14/15	J (AUX)	C31	WHITE		8				
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN	SHELL					
3	0	23	AO16	A	C32	RED			1		
		24	AO GND 16/17	I (REF)	C33	WHITE			3		
	1	57	AO17	B	C34	BROWN			2		
		24	AO GND 16/17	I (REF)	C35	WHITE			3		
	2	58	AO18	C	C36	ORANGE			4		
		59	AO GND 18/19	I (REF)	C37	WHITE			3		
	3	25	AO19	D	C38	YELLOW			5		
		59	AO GND 18/19	I (REF)	C39	WHITE			3		
	4	26	AO20	E	C40	GREEN			6		
		27	AO GND 20/21	J (AUX)	C41	WHITE			8		
	5	60	AO21	F	C42	BLUE			7		
		27	AO GND 20/21	J (AUX)	C43	WHITE			8		
	6	61	AO22	G	C44	VIOLET			9		
		62	AO GND 22/23	J (AUX)	C45	WHITE			8		
	7	28	AO23	H	C46	GREY			10		
62		AO GND 22/23	J (AUX)	C47	WHITE			8			
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN	SHELL					
4	0	29	AO24	A	C48	RED				1	
		30	AO GND 24/25	I (REF)	C49	WHITE				3	
	1	63	AO25	B	C50	BROWN				2	
		30	AO GND 24/25	I (REF)	C51	WHITE				3	
	2	64	AO26	C	C52	ORANGE				4	
		65	AO GND 26/27	I (REF)	C53	WHITE				3	
	3	31	AO27	D	C54	YELLOW				5	
		65	AO GND 26/27	I (REF)	C55	WHITE				3	
	4	32	AO28	E	C56	GREEN				6	
		33	AO GND 28/29	J (AUX)	C57	WHITE				8	
	5	66	AO29	F	C58	BLUE				7	
		33	AO GND 28/29	J (AUX)	C59	WHITE				8	
	6	67	AO30	G	C60	VIOLET				9	
		68	AO GND 30/31	J (AUX)	C61	WHITE				8	
	7	34	AO31	H	C62	GREY				10	
68		AO GND 30/31	J (AUX)	C63	WHITE				8		
N/A	SHELL	CHSGND	CHSGND	OUTER SHIELD	SHIELD/DRAIN	SHELL					