

SHELL SIZE	ENTRY SIZE	HIRELCO PART NUMBER	D		(E)		J		øK		L THREAD METRIC
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	
			±.050	±1.27			±.010	±.25	±.010	±.25	
09	04	HRS-116-09**04	1.160	29.46	.665	16.89	.687	17.45	.760	19.30	M12x1.0-6H
09	05	HRS-116-09**05	1.160	29.46	.696	17.68	.687	17.45	.760	19.30	M12x1.0-6H
09	06	HRS-116-09**06	1.160	29.46	.728	18.49	.687	17.45	.760	19.30	M12x1.0-6H
09	07	HRS-116-09**07	1.160	29.46	.759	19.28	.687	17.45	.760	19.30	M12x1.0-6H
11	04	HRS-116-11**04	1.225	31.12	.665	16.89	.812	20.62	.890	22.61	M15x1.0-6H
11	05	HRS-116-11**05	1.225	31.12	.696	17.68	.812	20.62	.890	22.61	M15x1.0-6H
11	06	HRS-116-11**06	1.225	31.12	.728	18.49	.812	20.62	.890	22.61	M15x1.0-6H
11	07	HRS-116-11**07	1.225	31.12	.759	19.28	.812	20.62	.890	22.61	M15x1.0-6H
11	08	HRS-116-11**08	1.225	31.12	.790	20.07	.812	20.62	.890	22.61	M15x1.0-6H
13	04	HRS-116-13**04	1.290	32.77	.665	16.89	.937	23.80	1.020	25.91	M18x1.0-6H
13	05	HRS-116-13**05	1.290	32.77	.696	17.68	.937	23.80	1.020	25.91	M18x1.0-6H
13	06	HRS-116-13**06	1.290	32.77	.728	18.49	.937	23.80	1.020	25.91	M18x1.0-6H
13	07	HRS-116-13**07	1.290	32.77	.759	19.28	.937	23.80	1.020	25.91	M18x1.0-6H
13	08	HRS-116-13**08	1.290	32.77	.790	20.07	.937	23.80	1.020	25.91	M18x1.0-6H
15	05	HRS-116-15**05	1.363	34.62	.696	17.68	1.062	26.97	1.165	29.59	M22x1.0-6H
15	06	HRS-116-15**06	1.363	34.62	.728	18.49	1.062	26.97	1.165	29.59	M22x1.0-6H
15	07	HRS-116-15**07	1.363	34.62	.759	19.28	1.062	26.97	1.165	29.59	M22x1.0-6H
15	08	HRS-116-15**08	1.363	34.62	.790	20.07	1.062	26.97	1.165	29.59	M22x1.0-6H
15	10	HRS-116-15**10	1.363	34.62	.853	21.67	1.062	26.97	1.165	29.59	M22x1.0-6H
17	06	HRS-116-17**06	1.435	36.45	.728	18.49	1.188	30.18	1.310	33.27	M25x1.0-6H
17	07	HRS-116-17**07	1.435	36.45	.759	19.28	1.188	30.18	1.310	33.27	M25x1.0-6H
17	08	HRS-116-17**08	1.435	36.45	.790	20.07	1.188	30.18	1.310	33.27	M25x1.0-6H
17	10	HRS-116-17**10	1.435	36.45	.853	21.67	1.188	30.18	1.310	33.27	M25x1.0-6H
17	12	HRS-116-17**12	1.435	36.45	.915	23.24	1.188	30.18	1.310	33.27	M25x1.0-6H
19	06	HRS-116-19**06	1.498	38.05	.728	18.49	1.312	33.32	1.435	36.45	M28x1.0-6H
19	07	HRS-116-19**07	1.498	38.05	.759	19.28	1.312	33.32	1.435	36.45	M28x1.0-6H
19	08	HRS-116-19**08	1.498	38.05	.790	20.07	1.312	33.32	1.435	36.45	M28x1.0-6H
19	10	HRS-116-19**10	1.498	38.05	.853	21.67	1.312	33.32	1.435	36.45	M28x1.0-6H
19	12	HRS-116-19**12	1.498	38.05	.915	23.24	1.312	33.32	1.435	36.45	M28x1.0-6H
19	14	HRS-116-19**14	1.498	38.05	.978	24.84	1.312	33.32	1.435	36.45	M28x1.0-6H
21	10	HRS-116-21**10	1.570	39.88	.853	21.67	1.438	36.53	1.580	40.13	M31x1.0-6H
21	12	HRS-116-21**12	1.570	39.88	.915	23.24	1.438	36.53	1.580	40.13	M31x1.0-6H
23	12	HRS-116-23**12	1.638	41.61	.915	23.24	1.562	39.67	1.715	43.56	M34x1.0-6H
23	14	HRS-116-23**14	1.638	41.61	.978	24.84	1.562	39.67	1.715	43.56	M34x1.0-6H
23	16	HRS-116-23**16	1.638	41.61	1.040	24.84	1.562	39.67	1.715	43.56	M34x1.0-6H
25	12	HRS-116-25**12	1.710	43.43	.915	23.24	1.687	42.85	1.860	47.24	M37x1.0-6H
25	14	HRS-116-25**14	1.710	43.43	.978	24.84	1.687	42.85	1.860	47.24	M37x1.0-6H
25	16	HRS-116-25**16	1.710	43.43	1.040	26.42	1.687	42.85	1.860	47.24	M37x1.0-6H
25	18	HRS-116-25**18	1.710	43.43	1.103	28.02	1.687	42.85	1.860	47.24	M37x1.0-6H
25	20	HRS-116-25**20	1.710	43.43	1.165	29.59	1.687	42.85	1.860	47.24	M37x1.0-6H

NOTES: UNLESS OTHERWISE SPECIFIED

1. COUPLING INTERFACE DIMENSIONS IN ACCORDANCE WITH MIL-C-85049, FIGURE 3

2. INTERNAL SURFACE OF BACKSHELL BODY SHALL BE COATED WITH TEFLON.

3. PART NUMBER STRUCTURE SHALL BE AS FOLLOWS:

HRS - 116 - ** * * **
CABLE ENTRY SIZE

– FINISH

1 - OLIVE DRAB CADMIUM PER QQ-P-416, TYPE II, CLASS 3

2 - ELECTROLESS NICKEL PER ASTM B607 OR B656

6 - PASSIVATED PER ASTM A967

- MATERIAL

0 - 6061-T6 ALUMINUM ALLOY

2 - 303 STAINLESS STEEL

- SHELL SIZE

- HIRELCO BASIC PART NUMBER

EAR CONTROLLED PRODUCT

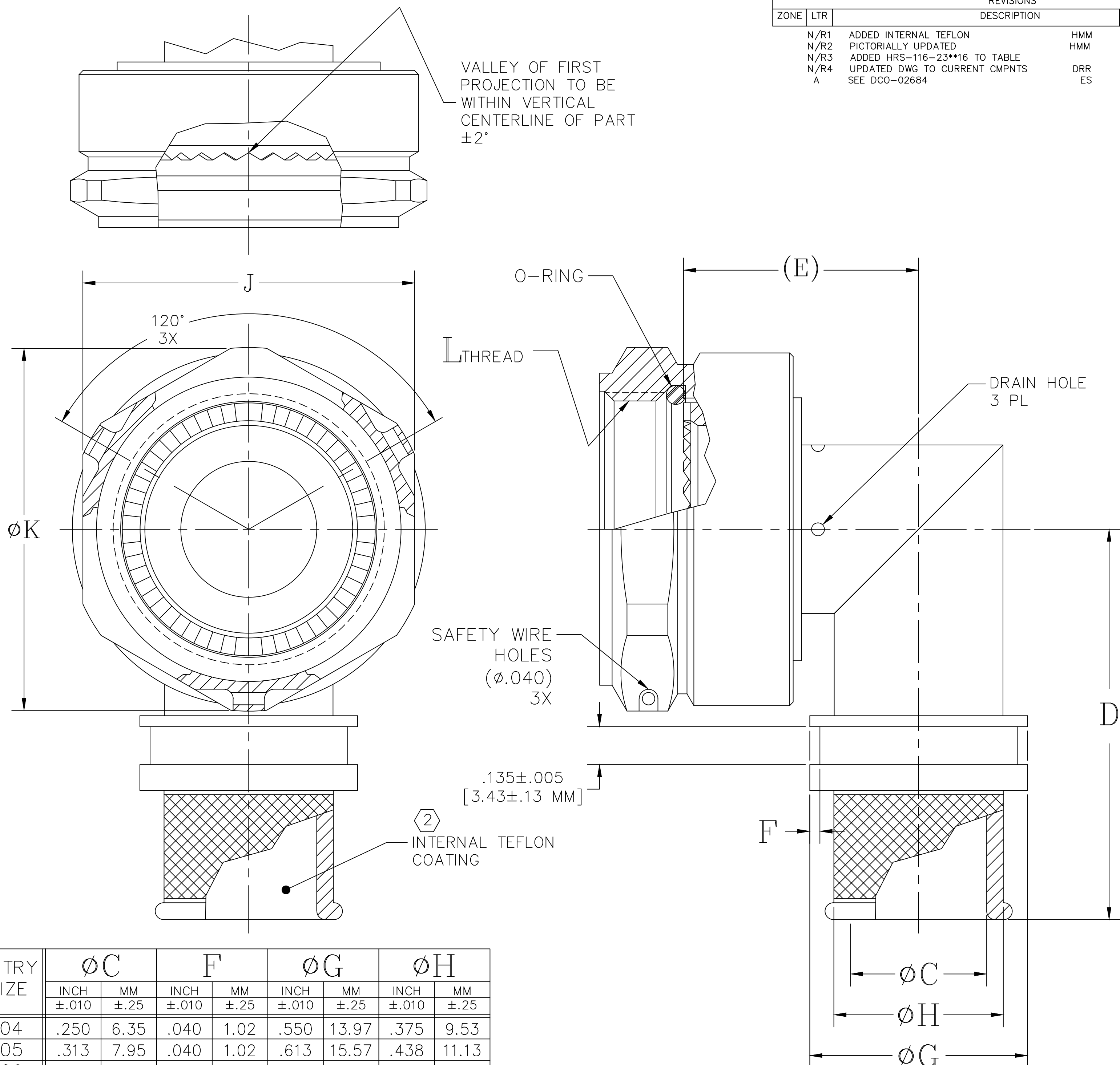
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ENTRY SIZE	ØC		F		ØG		ØH	
	INCH	MM	INCH	MM	INCH	MM	INCH	MM
	±.010	±.25	±.010	±.25	±.010	±.25	±.010	±.25
04	.250	6.35	.040	1.02	.550	13.97	.375	9.53
05	.313	7.95	.040	1.02	.613	15.57	.438	11.13
06	.375	9.53	.040	1.02	.675	17.15	.500	12.70
07	.438	11.13	.040	1.02	.738	18.75	.563	14.30
08	.500	12.70	.040	1.02	.800	20.32	.625	15.88
09	.563	14.30	.040	1.02	.863	21.92	.688	17.48
10	.625	15.88	.065	1.65	.925	23.50	.750	19.05
12	.750	19.05	.065	1.65	1.050	26.67	.875	22.23
14	.875	22.23	.065	1.65	1.175	29.85	1.000	25.40
16	1.000	25.40	.065	1.65	1.300	33.02	1.125	28.58
18	1.125	28.58	.065	1.65	1.425	36.20	1.250	31.75
20	1.250	31.75	.065	1.65	1.550	39.37	1.375	34.93

NEXT ASSY	USED ON
APPLICATION	



ZONE		LTR	DESCRIPTION	DATE	APPROVED
N/R1			ADDED INTERNAL TEFLON	HMM	05/03/07
N/R2			PICTORIALLY UPDATED	HMM	09/08/09
N/R3			ADDED HRS-116-23**16 TO TABLE		10/29/11
N/R4			UPDATED DWG TO CURRENT CMPNTS	DRR	1/17/14
A			SEE DCO-02684	ES	10/12/2020

ENVELOPE

NOMENCLATURE OR DESCRIPTION			
PARTS LIST			

APPROVALS		DATE
ASSO		6/27/06
K.PAYNE		12/02/08
M.JASSO		6/27/06

HiREL CONNECTORS INC. 700 W. SHAWLON DRIVE CLAREMONT CA 91711		
M38999 SERIES 3 & 4 INTERFACE 90° SELF-LOCKING BACKSHELL; BAND SHIELD TERMINATING		
SIZE	CODE IDENT NO.	DRAWING NO.
D	34222	HRS-116-*****
SCALE	NONE	23198
		SHEET 1 OF 1

10/16/2020 8:28:28 AM, MANUFACTURING RELEASE