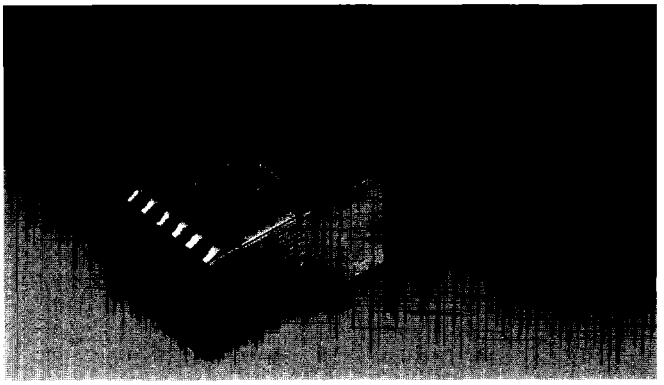
ERmet® Hard Metric Cable System



These ERmet® cable assemblies are designed to mate reliably with all popular 2mm H.M. shroud systems compatible with the IEC-61076-4-101 connector standard. The ERmet® shroud system is well suited for rugged applications because of the unique retention system which locks the shrouds tightly after they are fully seated. The ERmet® shrouds are available with convenient spring loaded thumb latches which will securely retain the cable connectors against the strain of a cable bundle. The self latching action of the spring loaded design is particularly convenient in hard-to-reach locations.

Figure 1 – Dimensions of 1 x 5 wafer

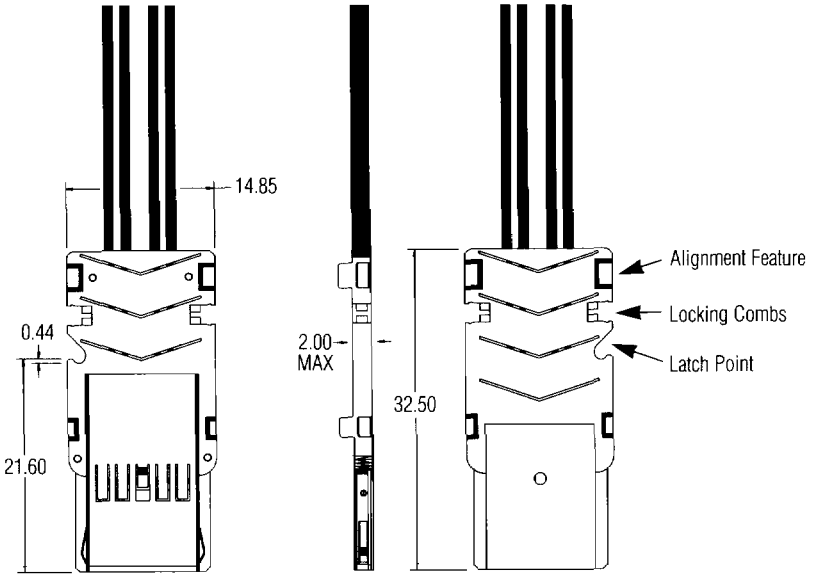


Figure 2
Assembled View

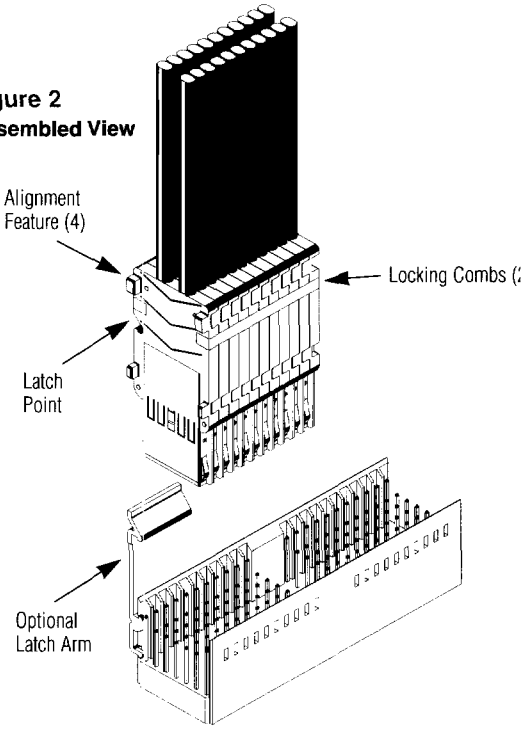


Table 3 – Connector Styles

Style	Description
1	1 x 5 Wafer No Shield
2	1 x 7 Wafer With Shield
3	Special Customer Specified Connector
4	No Connector Installed

Table 4 – Available Signal-Ground Pinouts for Wafers

	A	B	C	D	E	F	G	H	J	K	L	M	N	X
z	+	+	+	+	+	+	+	+	+	+	+	+	Coding Module	Custom Pinout
a	S	S	N/C	S	G	S	N/C	G	N/C	S	S	S		
b	S	S	N/C	G	S	G	N/C	S	N/C	S	S	S		
c	G	G	G	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	S		
d	S	N/C	S	S	G	N/C	S	N/C	G	S	S	S		
e	S	N/C	S	G	S	N/C	S	N/C	S	S	G	S		
f	+	+	+	+	+	+	+	+	+		+			

S=Signal G=Ground N/C=Not connected +=With the optional inter-module shields, the z and f rows will be committed to ground through one or more additiona wafer positions

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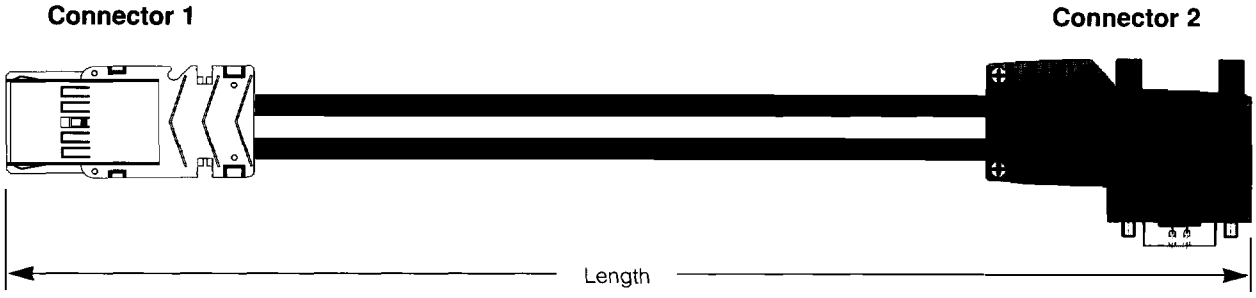
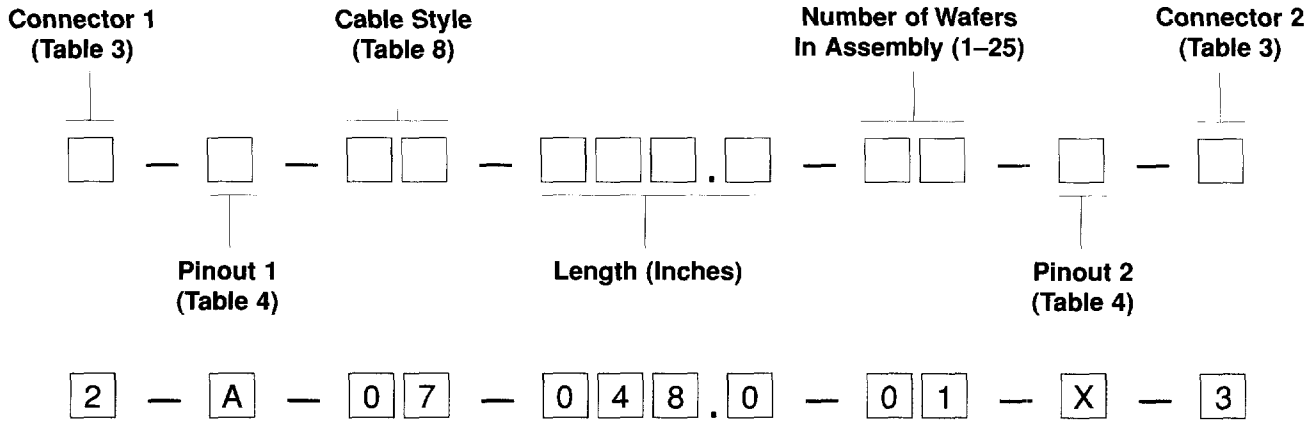
Ordering Information

Figure 7





Example: This sample has a 1 x 5 shielded ERmet cable connector (Table 3) on connector 1. The connector 1 pinout is according to scheme A (Table 4). The cable style is 07, 100 ohm twisted pair (Table 8). The length of the assembly is 48 inches. The connector 2 is a special customer specified connector (Table 4) and the pinout for connector 2 is also a special pinout specified by the customer (Table 4).

Table 8 – Stranded Cable Styles

Cable Style	Construction	Impedance ohms	Conductor/Drain AWG	Conductor/Drain Stranding	Time Delay ns/ft	DC Resistance, ohms/1,000 ft.
01	A	100 Ω parallel pair	26/28	Solid	1.2	40.0
02	A	100 Ω parallel pair	26/30	7 strands	1.2	38.0
03	A	100 Ω parallel pair	28/28	Solid	1.2	64.0
04	A	100 Ω parallel pair	28/28	7 strands	1.2	60.0
05	A	100 Ω parallel pair	30/30	Solid	1.2	102.0
06	A	100 Ω parallel pair	30/30	7 strands	1.2	93.0
07	A	50 Ω coax	26/26	7 strands	1.2	97.0
08	A	50 Ω coax	28/28	7 strands	1.2	60.0
09	A	50 Ω coax	26/26	7 strands	1.2	38.0
10	B	75 Ω coax	30/30	7 strands	1.2	93.0
11	Special Customer Specified Cable Style					

A = ePTFE dielectric, aluminum-polyester shield with drain, FEP Jacket *B = ePTFE dielectric, braided shield, FEP Jacket*