TYPE F42 TRANDUCER
(Models A, B, C, and D)

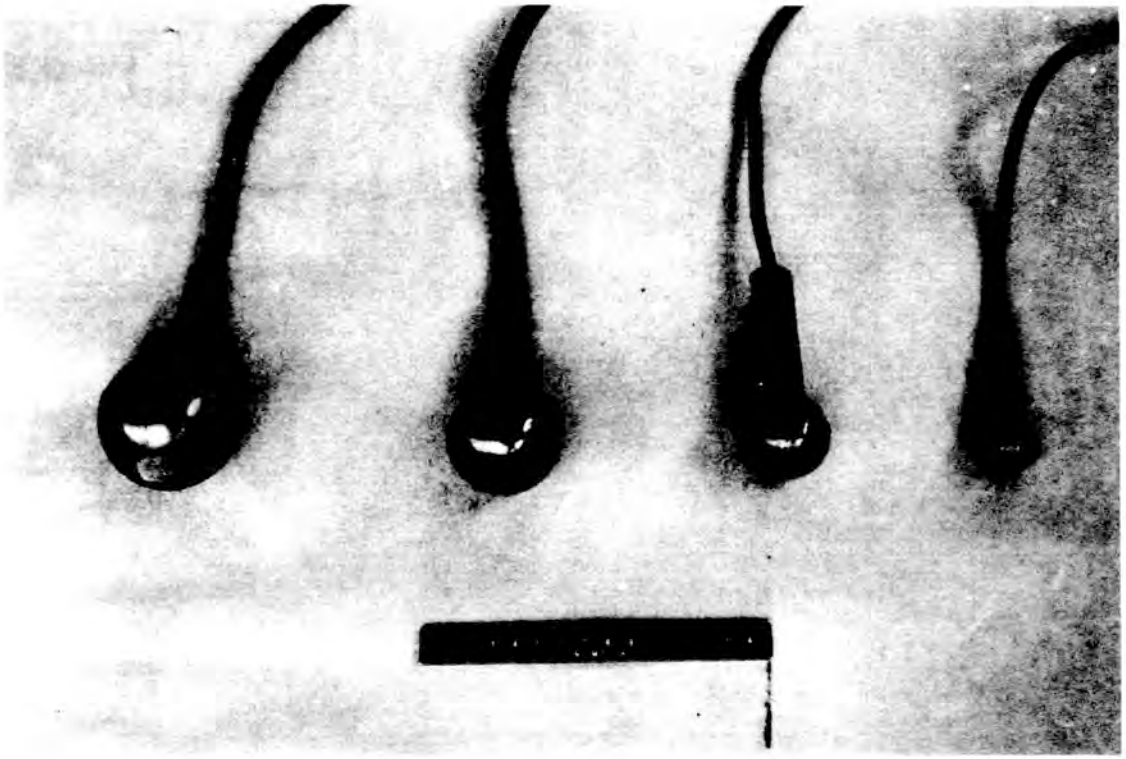

Fig. F42-1 - Type F42 transducers (Models A, B, C, and D).

FUNCTION: A set of four general-purpose, omnidirectional, reversible and reciprocal transducers.

DESIGN: PZT spherical shells encapsulated in polyurethane with o.d. of the spheres at 5.0 cm for Model A, 3.81 cm for Model B, 2.54 cm for Model C, and 1.27 cm for Model D.

	MODELS			
	A	B	C	D
FREQUENCY RANGE (kHz)	1-40	1-50	1-90	1-150
TVR	Fig. F42-2			
FFVS	Fig. F42-3			
MAXIMUM DEPTH (m)	690	1030	3500	3500
TEMPERATURE RANGE (°C)	0-30	0-30	0-30	0-30

	MODELS			
	A	B	C	D
MAXIMUM DRIVING (V rms)	400	400	200	100
ELECTRICAL IMPEDANCE	FIG. F42-4	FIG. F42-5	FIG. F42-6	FIG. F42-7
DIRECTIVITY	Omnidirectional in the horizontal (XY) plane and omnidirectional within ±2 dB in the vertical (XZ) plane			
SHIPPING WEIGHT (kg)	7	6	5.5	4.5
(lbs)	15	13	12	10
NORMAL CABLE LENGTH	30 m			
CABLE CODE	White Black & Shield		High Signal Low Signal & Ground	

INSTRUCTIONS FOR THE USER See Appendix D for preparation for use
Acoustic center is the center of sphere (see Fig. F42-8)
Clamp hanger on cylindrical cable gland

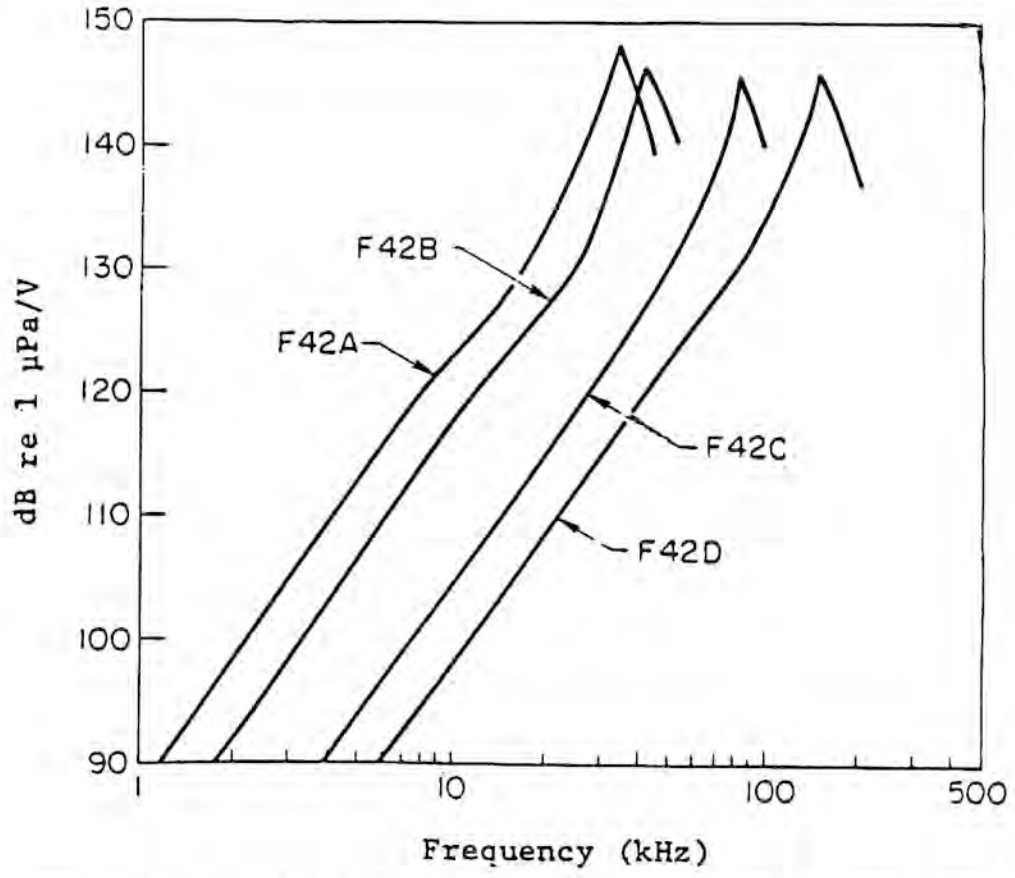

Fig. F42-2 - Typical TVR (black lead and shield grounded) at end of 30-m cable.

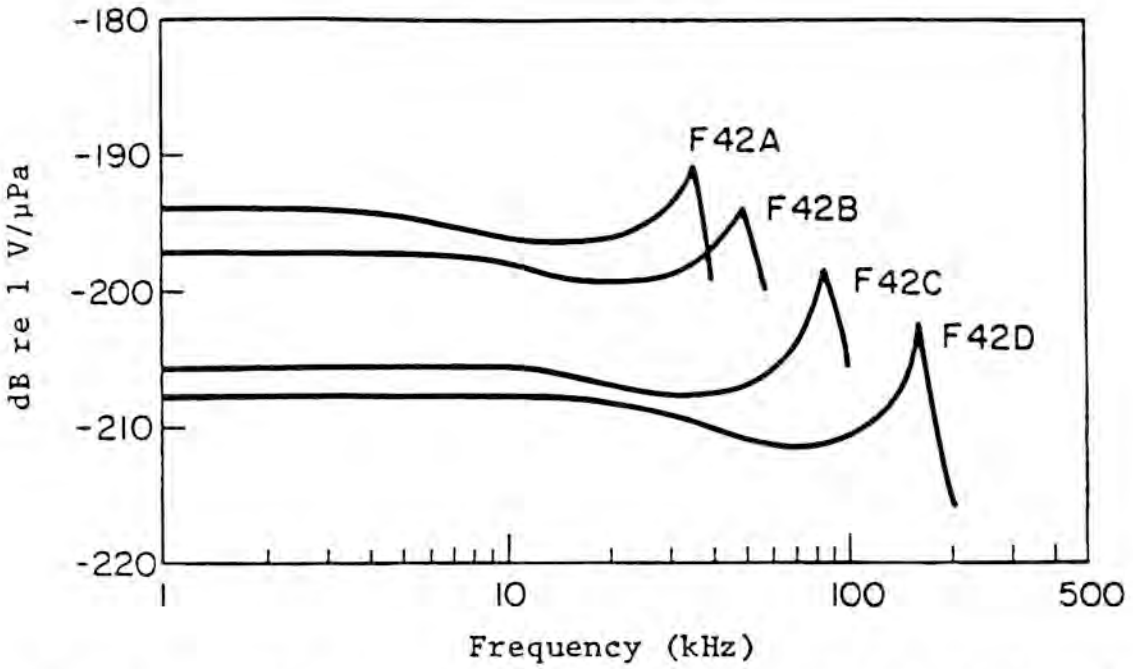

Fig. F42-3 - Typical FFVS at end of 30-m cable (unbalanced, black lead, and shield grounded).

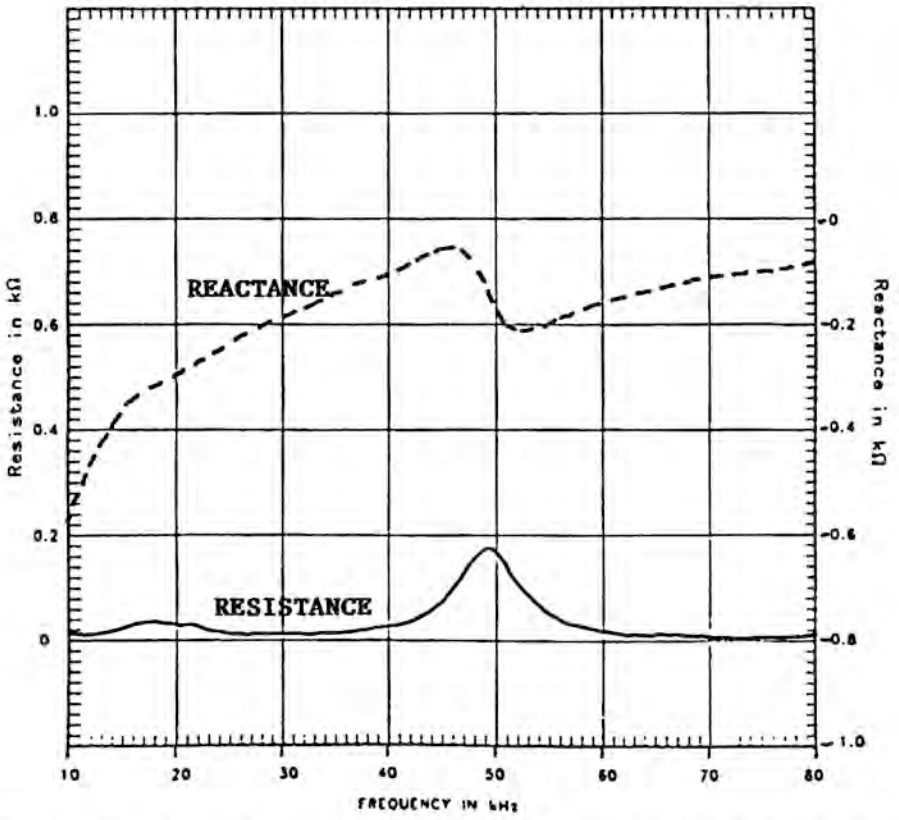

Fig. F42-4 - Typical series impedance for Type F42A transducer at end of 30-m cable.

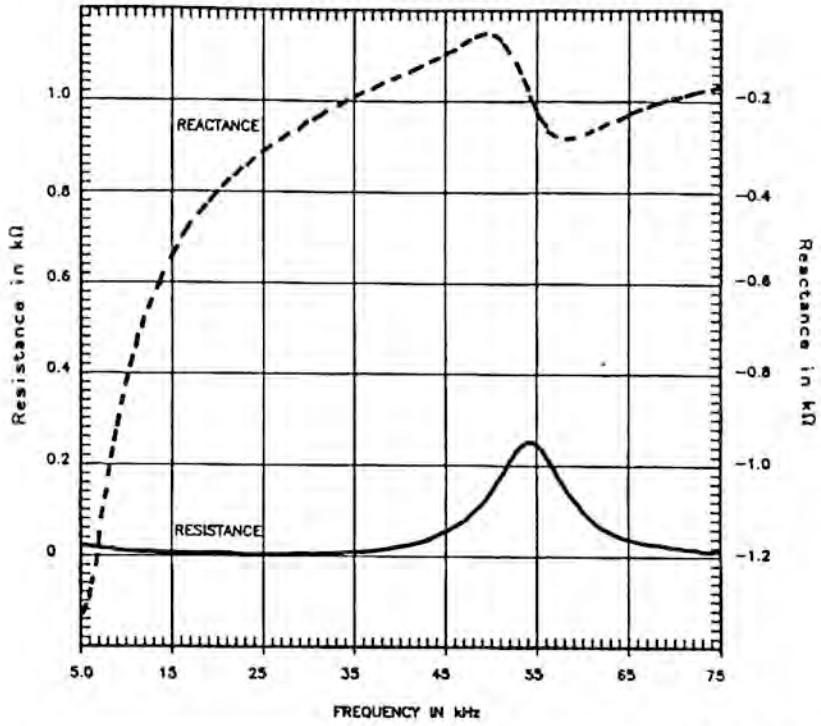

Fig. F42-5 - Typical series impedance for Type F42B transducer at end of 30-m cable.

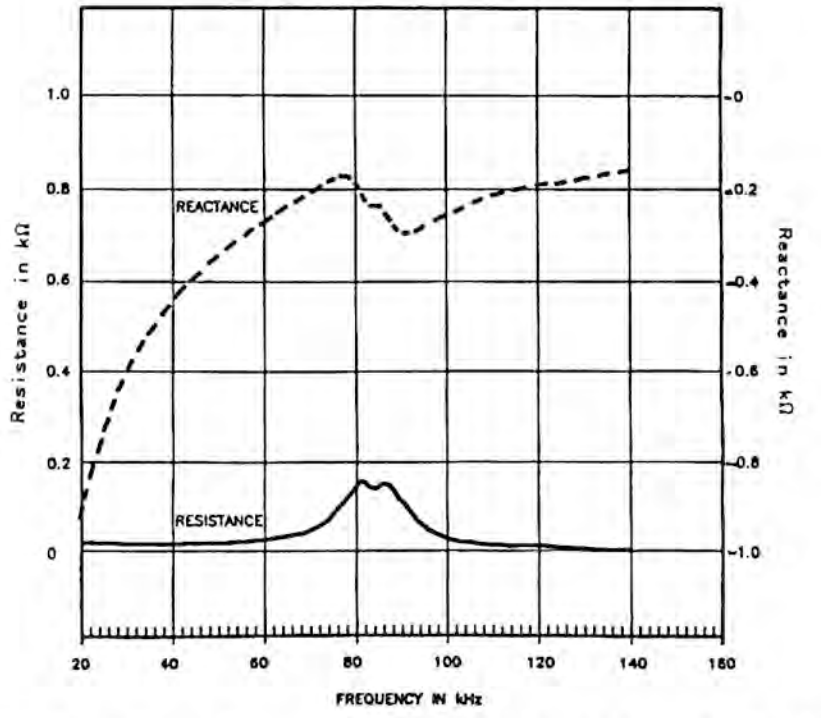

Fig. F42-6 - Typical series impedance for Type F42C transducer at end of 30-m cable.

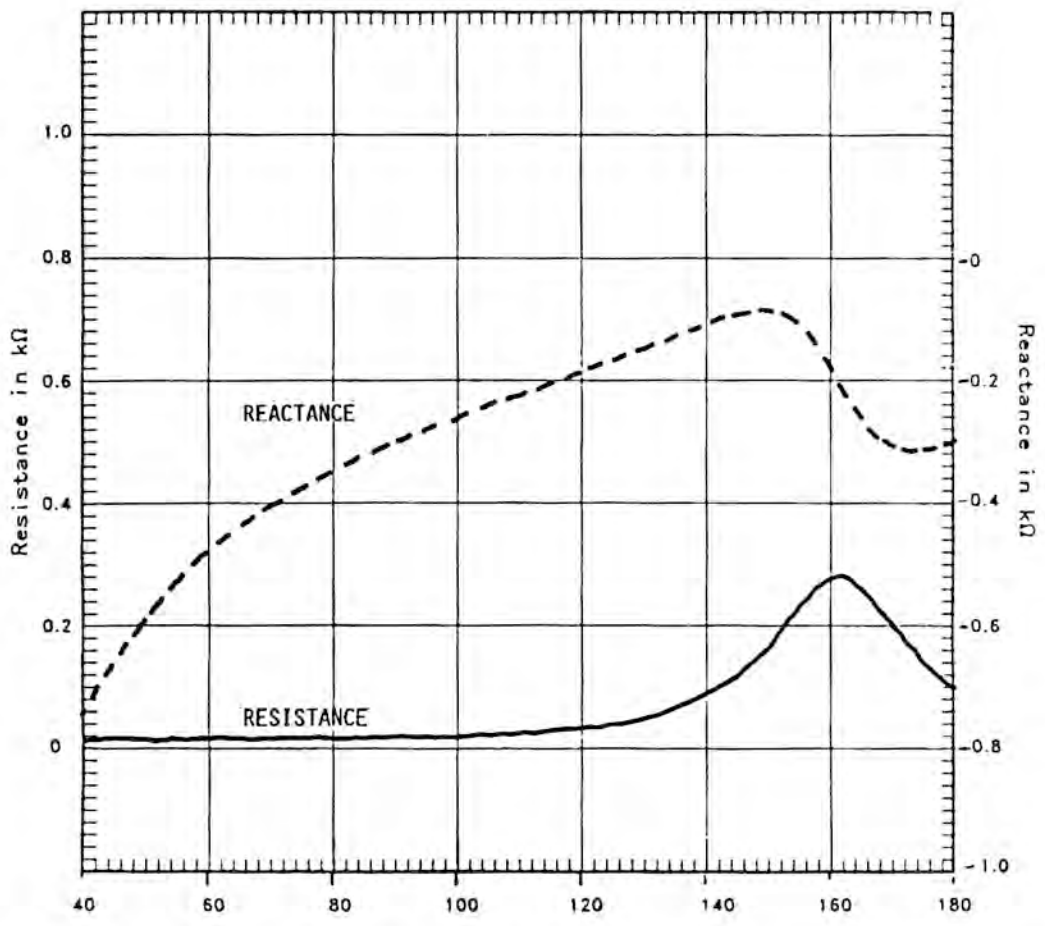

Fig. F42-7 - Typical series impedance for Type F42D transducer at end of 30-m transducer.

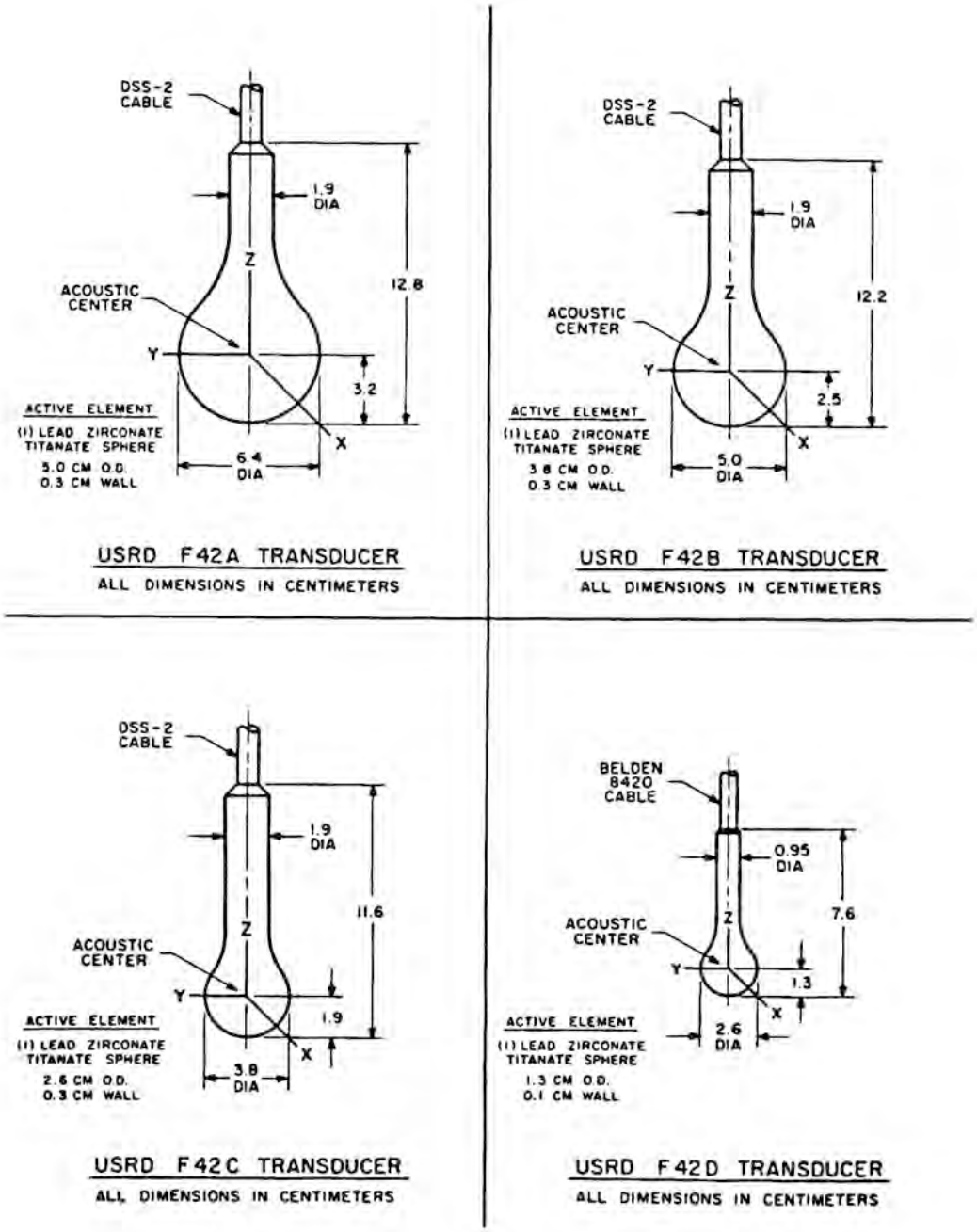

Fig. F42-8 - Dimensions (in cm) of Type F42 transducers.