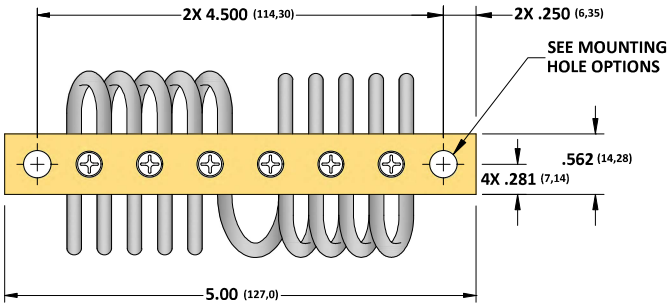
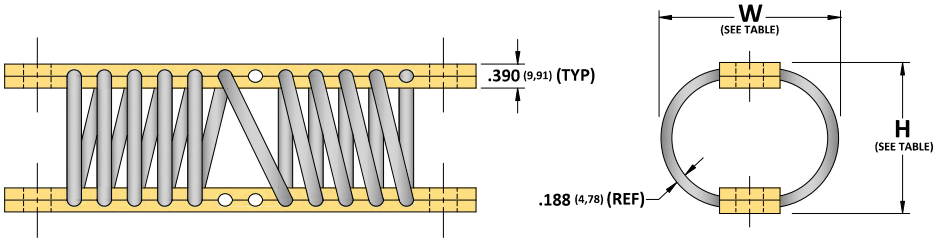
M6 SERIES

Design Data Sheet

3/16" DIAMETER CABLE

Helical Isolator





PART NUMBER	DIMENSIONS in (mm)		ISOLATOR WEIGHT oz (gms)	COMPRESSION			SHEAR/ROLL (AVG)		
	H ±.03	W (REF)		Kv (VIBE) (lbs/in)	Ks (SHOCK) (lbs/in)	MAX. DEFLECT. (in)	Kv (VIBE) (lbs/in)	Ks (SHOCK) (lbs/in)	MAX. DEFLECT. (in)
M6-120-10-[ ]	1.20 (30,5)	1.40 (35,6)	5.9 (167)	1917	1818	.40	628	786	.40
M6-130-10-[ ]	1.30 (33,0)	1.50 (38,1)	6.0 (170)	1588	1415	.45	572	700	.45
M6-140-10-[ ]	1.40 (35,6)	1.60 (40,6)	6.2 (176)	1430	1275	.50	417	516	.50
M6-150-10-[ ]	1.50 (38,1)	1.70 (43,2)	6.4 (182)	1251	1069	.60	362	466	.60
M6-160-10-[ ]	1.60 (40,6)	1.80 (45,7)	6.6 (187)	959	788	.70	293	369	.70
M6-170-10-[ ]	1.70 (43,2)	1.90 (48,2)	6.8 (193)	738	589	.80	221	308	.80
M6-190-10-[ ]	1.90 (48,2)	2.10 (53,3)	7.4 (210)	508	383	1.00	160	199	1.00
M6-200-10-[ ]	2.00 (51,0)	2.30 (58,4)	7.8 (221)	426	326	1.10	122	169	1.10

NOTES, FEATURES, MATERIALS/FINISHES

NOTES:

- MOUNTING HOLE TOLERANCES: ±0.010 (±0.25mm).
- ALL DIMENSIONS IN PARENTHESIS ARE METRIC (mm).
- SPECIALS AVAILABLE UPON REQUEST (MATERIALS, SIZE, MOUNTING HOLES, FINISH, ETC...)
- ADD .27lbs (.12kg) TO ISOLATOR WEIGHT FOR ALL-STAINLESS STEEL VERSIONS.

FEATURES:

- RUGGED ALL METAL CONSTRUCTION
- UNEQUALLED TEMP. RANGE: -200°F TO 500°F
- THREE AXIS CAPABILITY (6 DOF)
- FAIL SAFE CONSTRUCTION
- HIGH DAMPING: C/Cc ≈.15-.20
- LONG LIFE AND MAINTENANCE FREE

MATERIALS/FINISHES:

- CABLE: 300 SERIES SS PER MIL-W-83420 OR RR-W-410
- SCREWS: 300 SERIES SS PER MS51959-28
- INSERTS: 300 SERIES SS (ALUM BARS ONLY)
- RETAINER BARS: SEE BELOW

MODEL NUMBER EXAMPLE

M6 - 150 - 10 - S - D

MOUNTING HOLES
- SEE MOUNTING HOLE OPTIONS.
- ADD 'M' TO END OF P/N FOR METRIC MOUNTING HOLES.
- ADD 'L' TO END OF P/N FOR LOCKING INSERTS. (N/A FOR SS BARS)

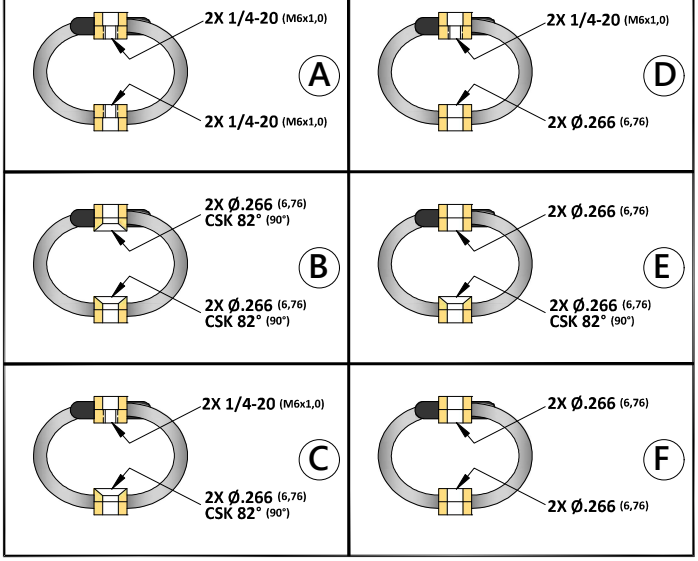
BAR MATERIAL/FINISH
- [ ]= 6061-T6 ALUM ALLOY/CHEM FILM IAW MIL-DTL-5541, TYPE II, CLASS 3.
- [H]= 6061-T6 ALUM ALLOY/ANODIZED IAW MIL-A-8625, TYPE II CLASS 1.
- [S]= 300 SERIES SS/PASSIVATED IAW ASTM A967.

NO. OF LOOPS
- 10 LOOPS STANDARD FOR THE M6 SERIES.
- ISOLATOR SPRING RATES ARE DIRECTLY PROPORTIONAL TO NO. OF CABLE LOOPS.

MODEL SIZE
- BASED ON ISOLATOR HEIGHT

SERIES
- CABLE DIAMETER IN 32NDS

MOUNTING HOLE OPTIONS



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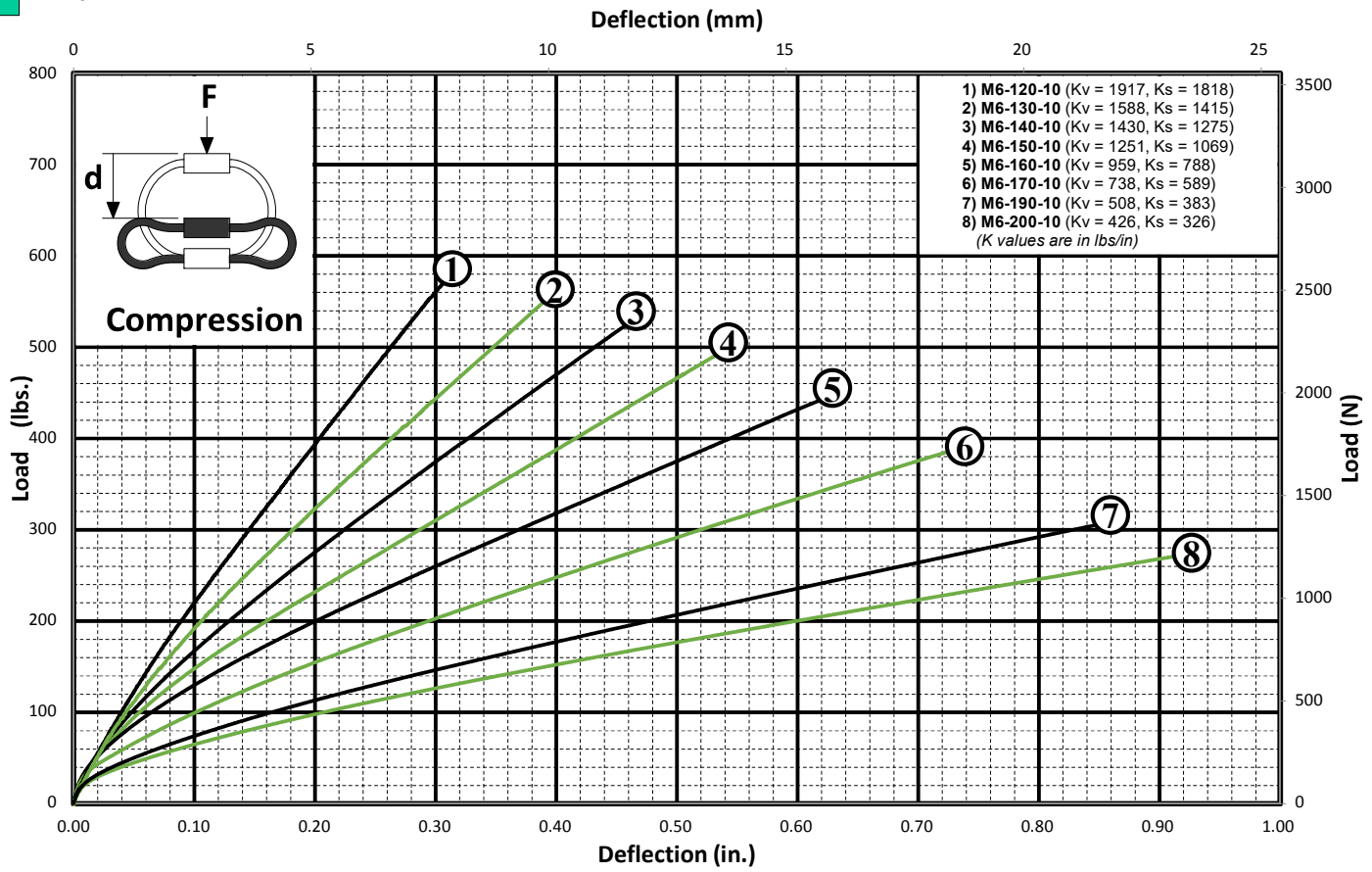

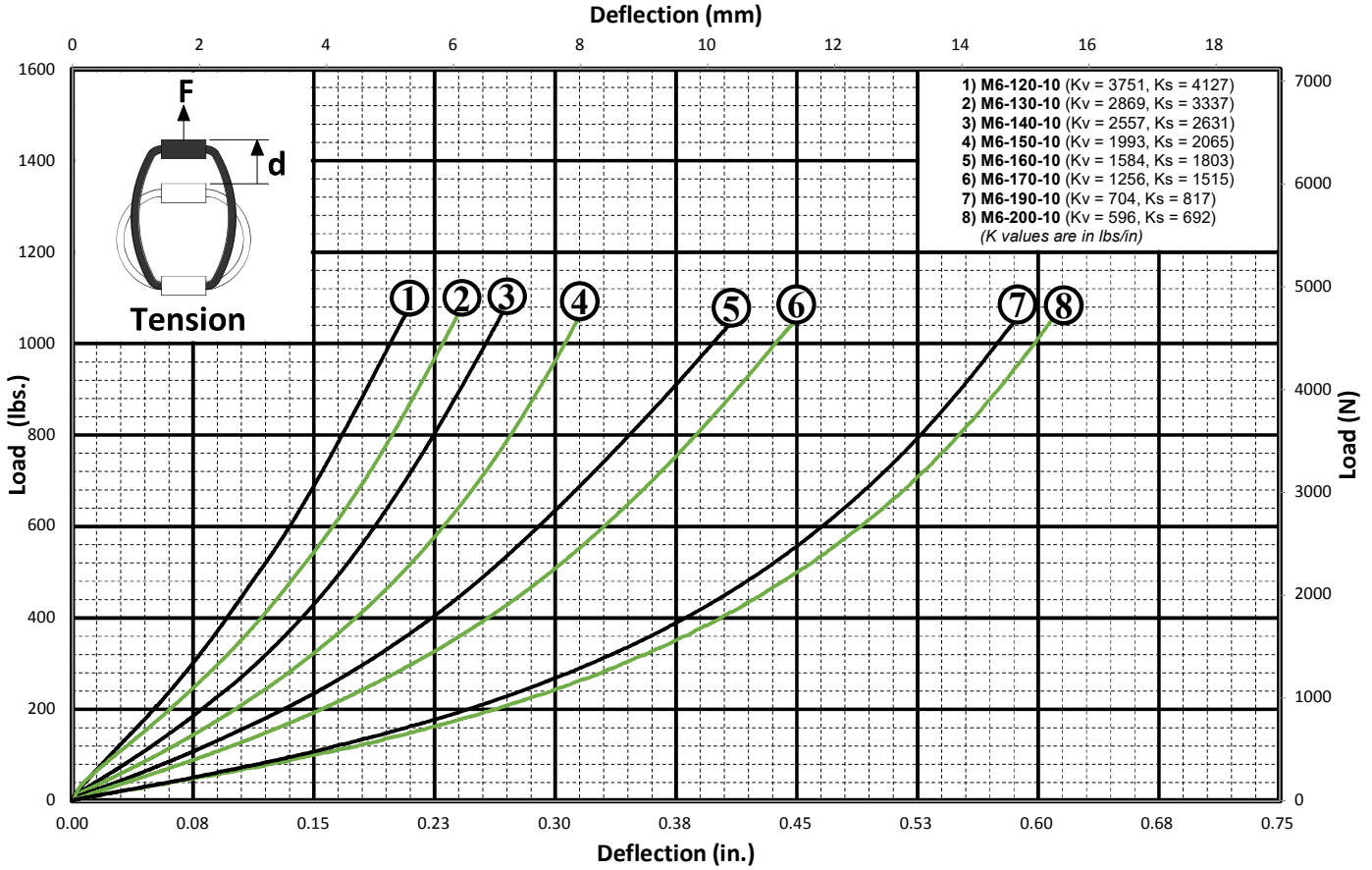

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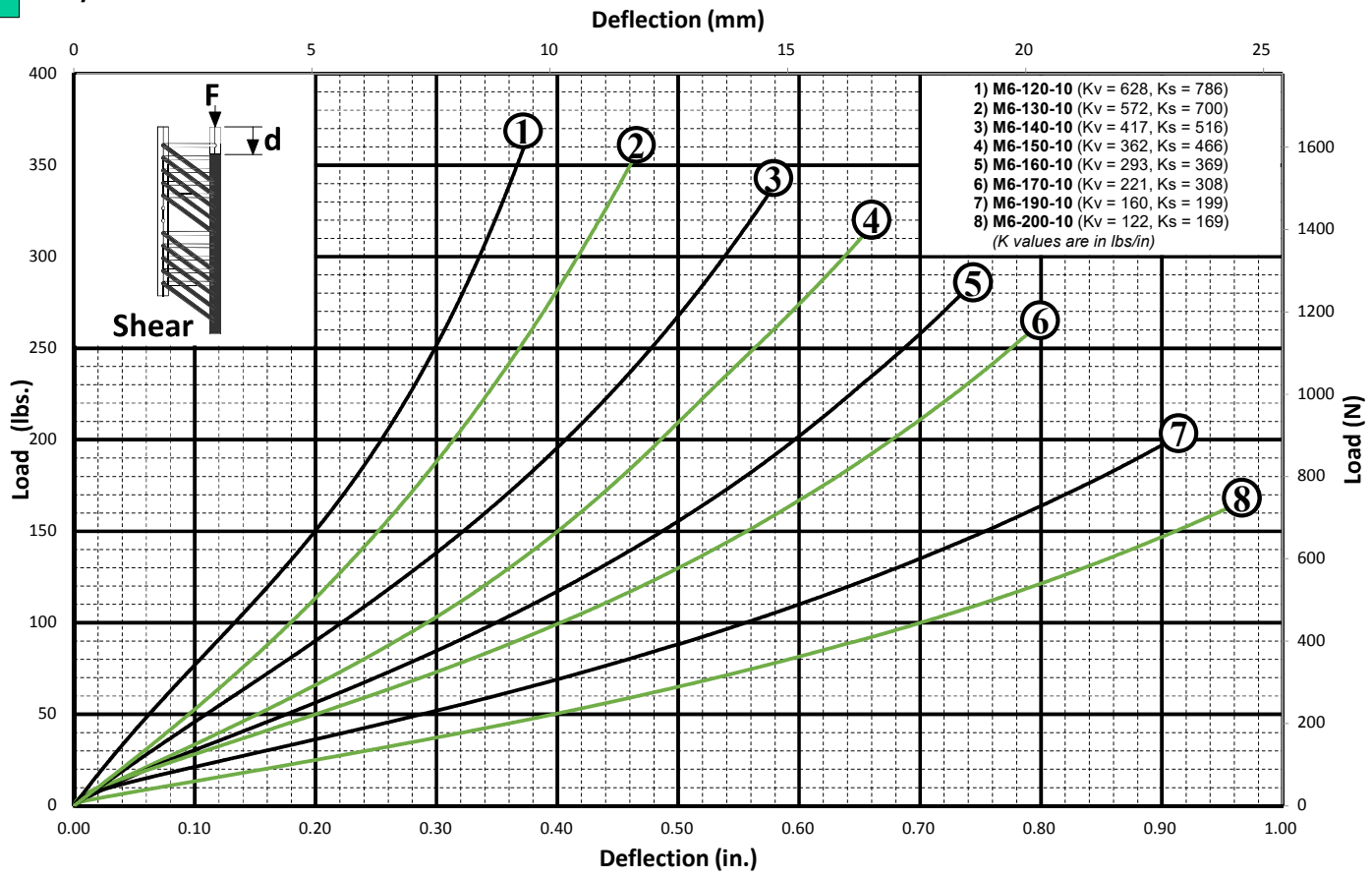

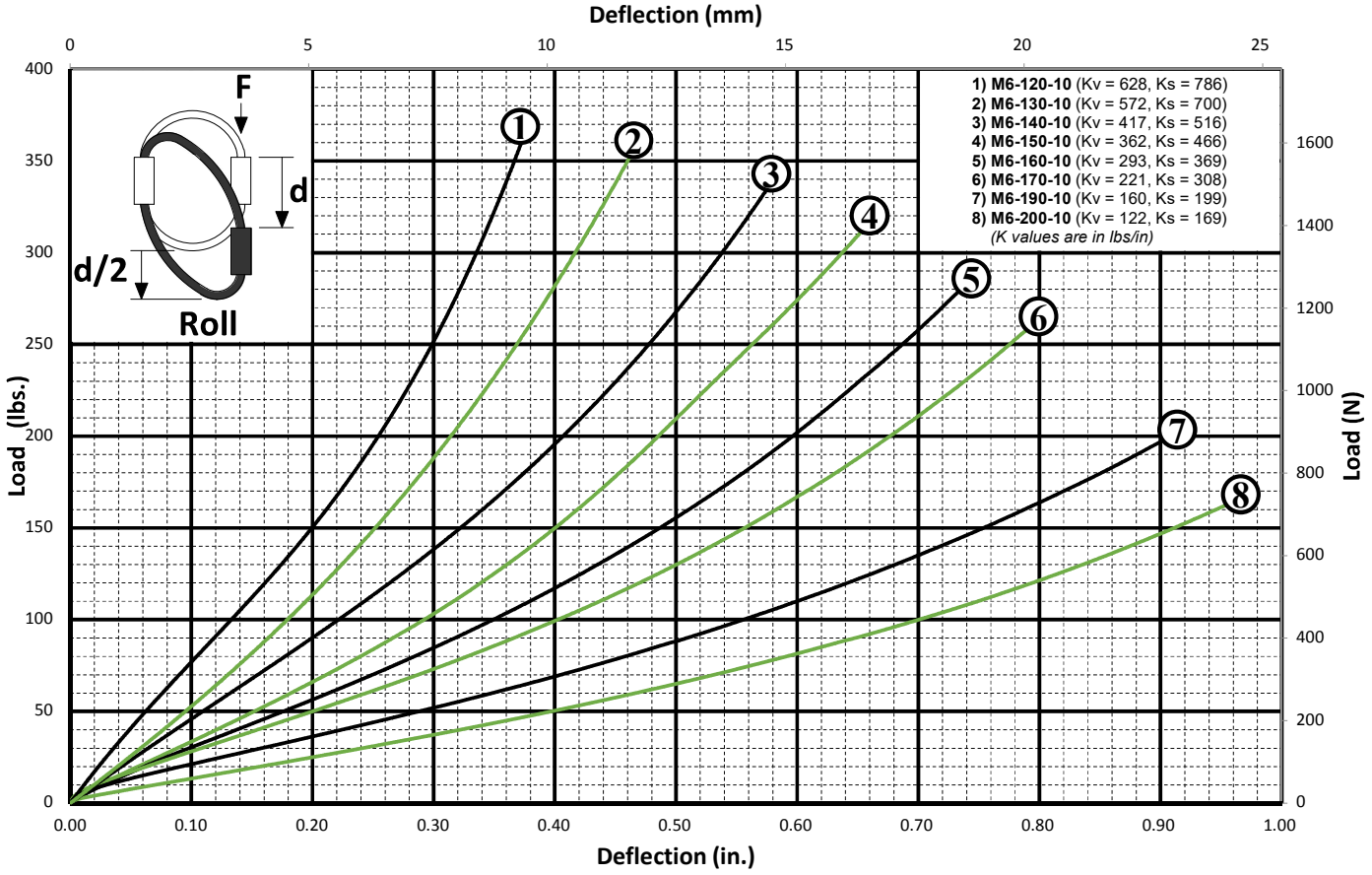
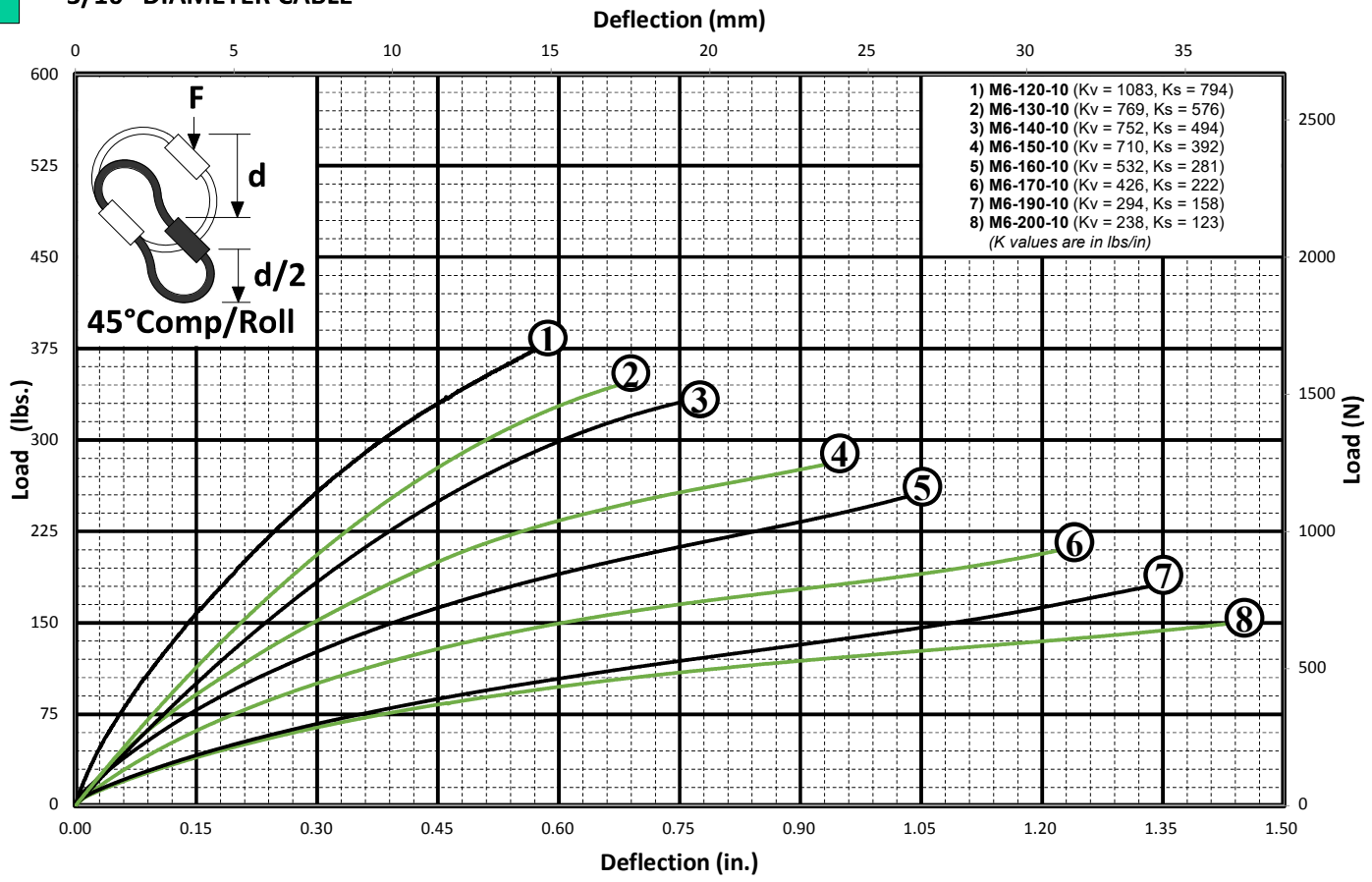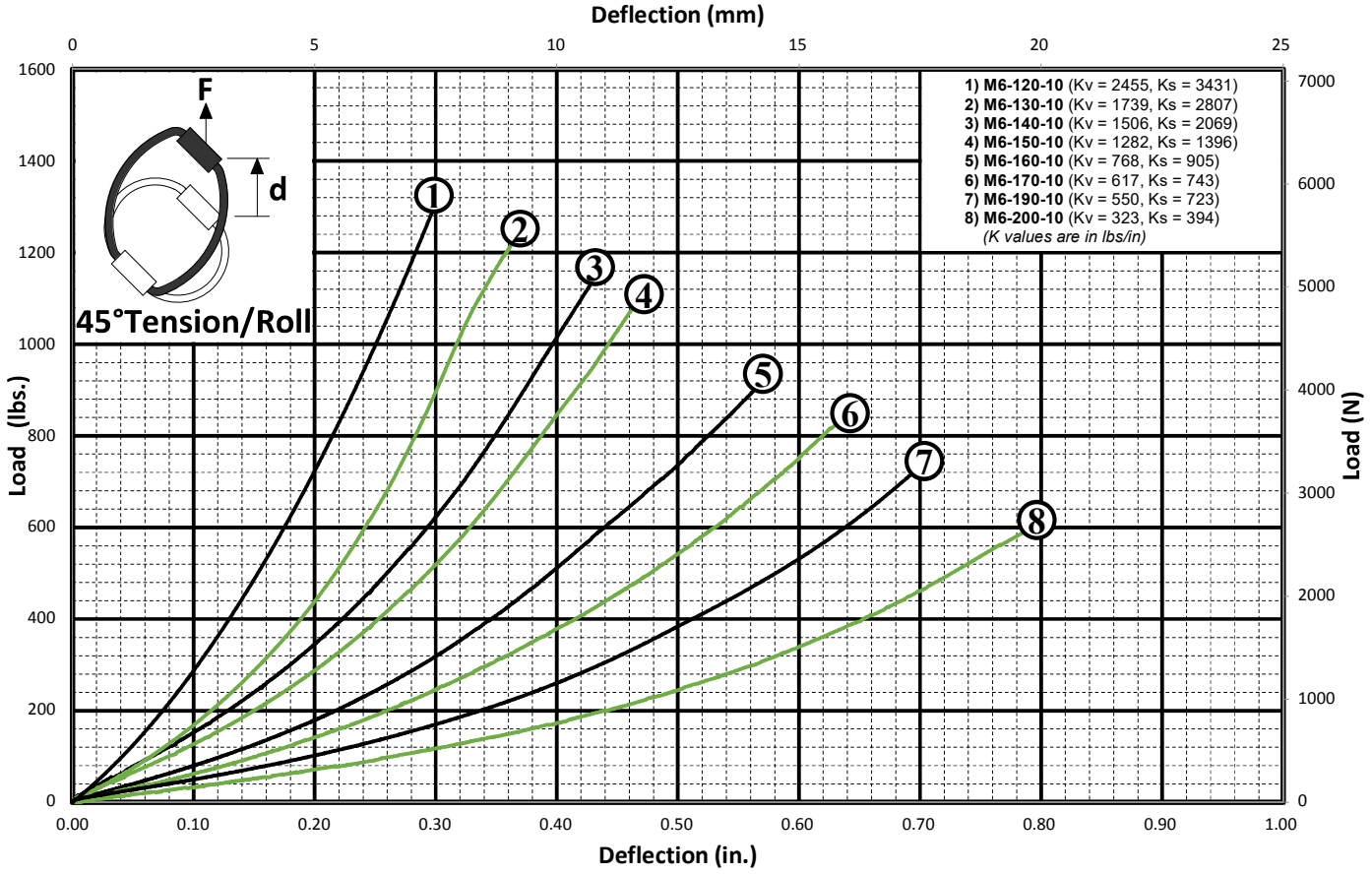
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