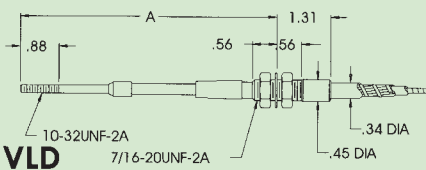
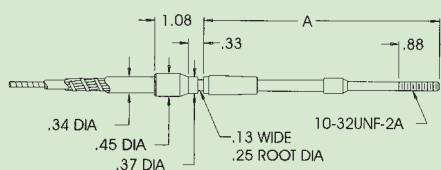
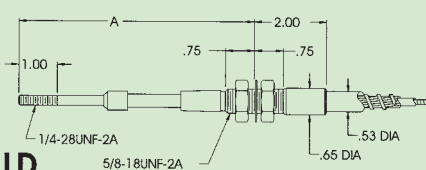
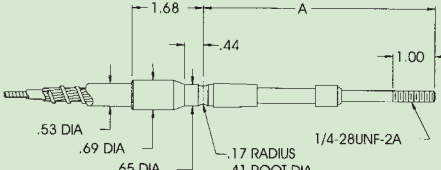
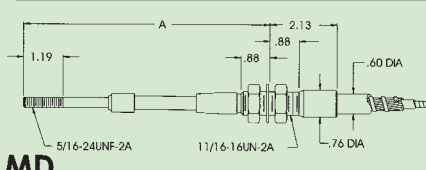
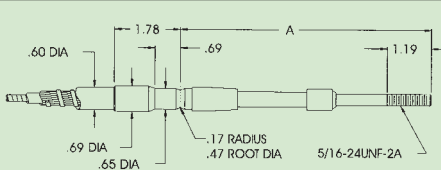
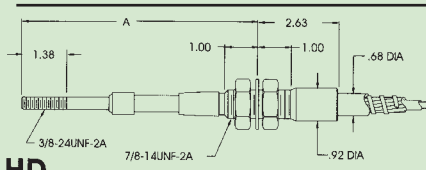
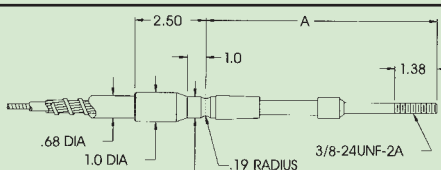


Push-Pull Cable Specifications

	A Dimension Threaded Swivel (in) (control at mid travel)	Minimum Travel Push-Pull (in)	Working Input Load (lbs) Push-Pull	Maximum Input Overload (lbs)	A Dimension Grooved Swivel (in) (control at mid travel)		
VLD		4.38 5.87 7.38 8.87 10.38 11.87	1" 2" 3" 4" 5" 6"	80/120 80/120 70/120 60/120 45/120 30/120	120/180 120/180 110/180 90/180 70/180 45/180	3.69 5.19 6.69 8.19 9.69 11.19	
LD		4.62 6.12 7.62 9.12 10.62 12.12	1" 2" 3" 4" 5" 6"	150/230 150/230 125/230 100/230 75/230 50/230	230/350 230/350 190/350 150/350 110/350 75/350	4.00 5.50 7.00 8.50 10.00 11.50	
MD		5.06 6.56 8.06 9.56 11.06 12.56	1" 2" 3" 4" 5" 6"	250/400 250/400 210/400 170/400 130/400 100/400	400/600 400/600 300/600 250/600 200/600 150/600	4.38 5.87 7.38 8.87 10.38 11.87	
HD		5.69 7.19 8.69 10.19 11.69 13.19	1" 2" 3" 4" 5" 6"	700/1000 700/1000 600/1000 500/1000 400/1000 300/1000	1000/1500 1000/1500 900/1500 750/1500 600/1500 450/1500	5.19 6.69 8.19 9.69 11.19 12.69	

Low Friction-EXT and Utility Cables Design Criteria

Efficiency:

Efficiency factor ratings are for comparative purposes and may vary due to length, rate of travel, direction of travel, bend radius and temperature.

To Compare Efficiency:

Input force = Output load (lbs) x total degrees of bend x efficiency factor + output load.

Efficiency Factors:

Low Friction-EXT .0012
Utility .002

Duty	Minimum Bend Radius
VLD	2"
LD	3"
MD	5"
HD	6"

Backlash:

Nominal Backlash = Backlash factor x total degrees of bend.

Backlash Factors:

VLD .00015 MD .00025
LD .00020 HD .00030

Temperature Range: -65° to +230°F