Terminal Efficiencies*

Terminal Efficiencies (Approximate)*

Type of Termination	Efficiency	
	Rope with IWRC*	Rope with FC**
Wire Rope Socket (Spelter or Resin)	100%	100%
Swaged Socket (Regular Lay Ropes only)	100%	(Not recommended)
Mechanical Spliced Sleeve (Flemish Eye)		
1" diameter and smaller	95%	92-1/2%
Greater than 1" diameter through 2"	92-1/2%	90%
Greater than 2" diameter through 3-1/2"	90%	(Not established)
Hand Spliced (Loop or Thimble) (Tucked w/ Carbon Steel Rope)		
1/4"	90%	90%
5/16"	89%	89%
3/8"	88%	88%
7/16"	87%	87%
1/2"	86%	86%
5/8"	84%	84%
3/4"	82%	82%
7/8" thru 2-1/2"	80%	80%
Hand Spliced (Loop or Thimble) (Tucked w/ Stainless Steel Rope)		
1/4"	80%	
5/16"	79%	
3/8"	78%	
7/16"	77%	
1/2"	76%	
5/8"	74%	
3/4"	72%	
7/8"	70%	
Wedge Sockets*** (Depending on Design)	75% to 80%	75% to 80%
Clips*** (Number of clips varies with size of rope)	80%	80%

* IWRC = Independent Wire Rope Core
** FC = Fiber Core
*** Typical values when applied properly.
Refer to the fitting manufacturer for exact values and method.
* Reprinted from the Wire Rope Technical Board "Wire Rope User's Manual, 4th Edition"

Note

Efficiencies are applicable to nominal wire rope strengths.