



COOPLOK™ Grooved Submittal

**Fig. 65LF & 66LF
Lightweight Flexible Couplings**

Figure 65LF & 66LF Lightweight Flexible couplings are designed for use in piping systems where flexibility is desired. They allow for pipe movement caused by seismic action and thermal variations, and will also attenuate noise & vibration transmitted through the piping system.



Material Specifications

Housing:

Ductile Iron Housings conform to ASTM A-536, Grade 65-45-12

Coating:

- Orange Paint (Rust inhibiting) - Standard Coating – Fig 65LF
- Hot Dipped Galvanized conforming to ASTM A-153 – Fig 66LF

Coupling Gaskets:

- Pre-lubricated Grade E-EPDM (Green Stripe)
-30°F (-34°C) to +230°F (+110°C) Service Temperature Range
For use with water service, diluted acids, alkali solutions, oil-free air and other chemical services. NOT FOR PETROLEUM, STEAM, or NATURAL GAS APPLICATIONS.
- Grade T-Nitrile (Orange Stripe)
-20°F (-29°C) to +180°F (+82°C) Service Temperature Range
For use with petroleum applications, vegetable & mineral oils, and air with oil vapors. NOT FOR USE IN HOT WATER, STEAM, or NATURAL GAS APPLICATIONS.
- Other: _____

Nuts and Bolts:

Zinc electroplated, heat treated, oval neck track head bolts conforming to ASTM 183 Grade 2 with a minimum tensile strength of 110,000psi; Heavy hex nuts made of carbon steel conforming to ASTM A-563 Grade A or Grade B, or J995 Grade 2.

SCI Track Bolts are 100% Magnetic Particle Inspected
The SCI logo appears on all COOPLOK™ track bolts.

Project Information	
Project /Job:	System:
Date:	
Engineer/Architect:	
Contractor:	
Address:	
Notes:	



500 Series Lightweight Flexible Couplings

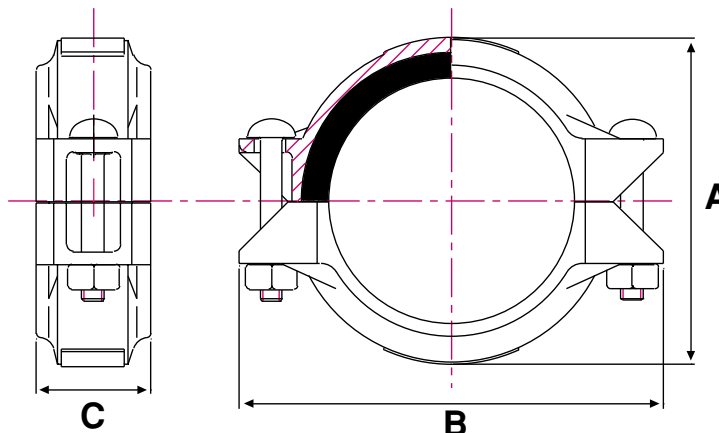


Fig. 65LF & 66LF – Lightweight Flexible Couplings

Part Number		Pipe Size IN / mm	Pipe OD IN / mm	Max Pipe End Gap IN / mm	Max End Load LB / kg	Max Working Pressure PSI / bar	Dimensions			Bolt Size IN / mm	Deflection Degrees	Weight LB / kg
Painted	Galv						A IN / mm	B IN / mm	C IN / mm			
65LF3012	66LF3012	1-1/4	1.66	1/8	1,082	500	2.58	4.09	1.85	3/8" x 2	2.1°	1.2
		32	42.2	3.2	491	34.5	65.5	103.9	47.0	M10 x 52		0.5
65LF3014	66LF3014	1-1/2	1.900	1/8	1,418	500	2.85	4.37	1.85	3/8" x 2	1.9°	1.3
		40	48.3	3.2	643	34.5	72.4	111.0	47.0	M10 x 52		0.6
65LF3020	66LF3020	2	2.375	1/8	2,215	500	3.37	4.8	1.85	3/8" x 2-1/2	2.0°	1.7
		50	60.3	3.2	1,005	34.5	85.6	121.9	47.0	M10 x 60		0.8
65LF3024	66LF3024	2-1/2	2.875	1/8	3,246	500	3.88	5.28	1.85	3/8" x 2-1/2	2.3°	1.9
		65	73.0	3.2	1,472	34.5	98.6	134.1	47.0	M10 x 65		0.9
65LF3030	66LF3030	3	3.500	1/8	4,811	500	4.4	5.91	1.85	3/8" x 2-1/2	2.0°	2.1
		80	88.9	3.2	2,182	34.5	111.8	150.1	47.0	M10 x 65		0.9
65LF3040	66LF3040	4	4.500	1/4	7,952	500	5.75	7.44	2.01	1/2" x 3-1/4	2.2°	3.6
		100	114.3	6.4	3,606	34.5	146.1	189.0	51.1	M12 x 80		1.6
65LF3050	66LF3050	5	5.563	1/4	12,153	500	6.79	9.13	2.01	5/8" x 3-3/4	1.8°	5.1
		125	141.3	6.4	5,511	34.5	172.5	231.9	51.1	M16 X 95		2.3
65LF3060	66LF3060	6	6.625	1/4	17,236	500	7.95	10.31	2.01	5/8" x 3-3/4	1.6°	6
		150	168.3	6.4	7,816	34.5	201.9	261.9	51.1	M16 X 95		2.7
65LF3080	66LF3080	8	8.625	1/4	29,213	500	10.8	13.07	2.52	3/4" X 5-1/4	1.4°	10.6
		200	219.1	6.4	13,248	34.5	274.3	332.0	64.0	M19 X 110		4.8

NOTES:

1. All bolts and gaskets identified by SCI logo.
2. 100% Magnetic particle inspection of each bolt. Each bolt has a minimum tensile strength of 110,000 psi.
3. Gaskets are pre-lubricated.
4. Gasket Grade E EPDM (green stripe):
 - Temperature range: -30°F (-34°C) to +230°F (+110°C).
5. Gasket Grade T Nitrile (orange stripe):
 - Temperature range: -20°F (-29°C) to +180°F (+82°C).
7. SMITH-COOPER Warranty only applies to assemblies made up using gaskets, housings, and bolts with the SCI logo.

Torque Requirements for Bolts (ft./lbs)	
Coupling Size	Fig. 65LF & Fig. 66LF
1-1/4" - 1-1/2"	30
2" - 2-1/2"	30
3" - 4"	50
5" - 6"	90
8"	150

30 ft./lbs. = 40 N/M
50 ft./lbs. = 67 N/M
90 ft./lbs. = 121 N/M
150 ft./lbs. = 202 N/M

