



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

## Butt Connectors

04/01/19



**NOTES:**

**BARE PART**

1. TIN-PLATED COPPER

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C) CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Part #	AWG	Tubing Color	Tubing ID	Overall Length	
				Minimum	Maximum
MLF5-20	24-22	Clear	.125	0.875	1.082
MLF5-16	22-18	Red	.227	1.327	1.607
MLF5-14	16-14	Blue	.255	1.327	1.607
MLF5-10	12-10	Yellow	.320	1.327	1.607

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

## MultiLink - LEAD FREE

### Ring Terminals

04/01/19



**NOTES:**

**BARE PART**

1. MATERIAL: COPPER
2. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C) CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Standard Style



Long-Neck Style

Part #	AWG	Stud Size	Neck Style	Tubing Color	Barrel Seam	Tubing ID	Overall Length		Pad Width (+/- .05)
							Minimum	Maximum	
MLF116-06L	22-18	#6	Long	Red	Brazed	.227	1.289	1.674	0.35
MLF116-08L	22-18	#8	Long	Red	Brazed	.227	1.289	1.674	0.35
MLF116-10L	22-18	#10	Long	Red	Brazed	.227	1.289	1.674	0.35
MLF116-14	22-18	1/4"	Standard	Red	Brazed	.227	1.350	1.775	0.47
MLF116-14L	22-18	1/4"	Long	Red	Brazed	.227	1.424	1.874	0.56
MLF116-516	22-18	5/16"	Standard	Red	Brazed	.227	1.379	1.775	0.47
MLF116-516L	22-18	5/16"	Long	Red	Brazed	.227	1.424	1.874	0.56
MLF116-38	22-18	3/8"	Standard	Red	Brazed	.227	1.398	1.775	0.53
MLF116-38L	22-18	3/8"	Long	Red	Brazed	.227	1.424	1.874	0.56
MLF114-06L	16-14	#6	Long	Blue	Brazed	.255	1.289	1.674	0.35
MLF114-08L	16-14	#8	Long	Blue	Brazed	.255	1.289	1.674	0.35
MLF114-10L	16-14	#10	Long	Blue	Brazed	.255	1.289	1.674	0.35
MLF114-14L	16-14	1/4"	Long	Blue	Brazed	.255	1.478	1.883	0.56
MLF114-516L	16-14	5/16"	Long	Blue	Brazed	.255	1.478	1.883	0.56
MLF114-38L	16-14	3/8"	Long	Blue	Brazed	.255	1.478	1.883	0.56
MLF110-06	12-10	#6	Standard	Yellow	Brazed	.320	1.160	1.502	0.34
MLF110-06L	12-10	#6	Long	Yellow	Brazed	.320	1.282	1.665	0.35
MLF110-08L	12-10	#8	Long	Yellow	Brazed	.320	1.282	1.665	0.35
MLF110-10L	12-10	#10	Long	Yellow	Brazed	.320	1.282	1.665	0.35
MLF110-14L	12-10	1/4"	Long	Yellow	Brazed	.320	1.478	1.883	0.56
MLF110-516L	12-10	5/16"	Long	Yellow	Brazed	.320	1.478	1.883	0.56
MLF110-38L	12-10	3/8"	Long	Yellow	Brazed	.320	1.478	1.883	0.56
MLF110-38WL	12-10	3/8"	Long	Yellow	Brazed	.320	1.617	2.093	0.69
MLF110-12	12-10	1/2"	Standard	Yellow	Brazed	.320	1.559	1.974	0.71
MLF110-12L	12-10	1/2"	Long	Yellow	Brazed	.320	1.617	2.093	0.69

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

## Spade Terminals

04/01/19



**NOTES:**

**BARE PART**

1. MATERIAL: COPPER
2. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C) CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Standard Style



Long-Neck Style

Part #	AWG	Stud Size	Neck Style	Tubing Color	Barrel Seam	Tubing ID	Overall Length		Pad Width (+/- .05)
							Minimum	Maximum	
MLF216-06L	22-18	#6	Long	Red	.227	Brazed	1.130	1.491	0.35
MLF216-08	22-18	#8	Standard	Red	.227	Brazed	1.189	1.512	0.31
MLF216-10L	22-18	#8 - #10	Long	Red	.227	Brazed	1.167	1.471	0.35
MLF214-06L	16-14	#6	Long	Blue	.255	Brazed	1.130	1.491	0.35
MLF214-08	16-14	#8	Standard	Blue	.255	Brazed	1.189	1.512	0.31
MLF214-10L	16-14	#8 - #10	Long	Blue	.255	Brazed	1.167	1.471	0.35
MLF210-06	12-10	#6	Standard	Yellow	.320	Brazed	1.179	1.523	0.35
MLF210-08	12-10	#8	Standard	Yellow	.320	Brazed	1.208	1.523	0.35
MLF210-10L	12-10	#8 - #10	Long	Yellow	.320	Brazed	1.189	1.494	0.35
MLF210-14L	12-10	1/4"	Long	Yellow	.320	Brazed	1.177	1.482	0.56

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

## Spade Terminals (Spring)

04/01/19



**NOTES:**

**BARE PART**

1. MATERIAL: COPPER
2. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C) CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Part #	AWG	Stud Size	Tubing Color	Tubing ID	Barrel Seam	L		Pad Width (+/- .05)
						Minimum	Maximum	
MLF316S-06	22-18	#6	Red	.227	Butted	1.198	1.502	0.25
MLF316S-08	22-18	#8	Red	.227	Butted	1.198	1.502	0.30
MLF316S-10	22-18	#10	Red	.227	Butted	1.217	1.502	0.30
MLF314S-06	16-14	#6	Blue	.255	Butted	1.151	1.470	0.25
MLF314S-08	16-14	#8	Blue	.255	Butted	1.208	1.502	0.30
MLF314S-10	16-14	#10	Blue	.255	Butted	1.227	1.502	0.32
MLF310S-06	12-10	#6	Yellow	.320	Butted	1.198	1.533	0.28
MLF310S-08	12-10	#8	Yellow	.320	Butted	1.227	1.533	0.32
MLF310S-10	12-10	#10	Yellow	.320	Butted	1.236	1.533	0.32

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

## Stepdown Butt Connectors

04/01/19



**NOTES:**

**BARE PART**

1. MATERIAL: COPPER
2. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C)  
CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Part #	AWG	Tubing Color	Barrel Band Colors	Barrel Seam	Tubing ID	Overall Length	
						Minimum	Maximum
MLF56-20	22-24 to 22-18	Red	White (small end) & Red (large end)	Seamless	.186	1.327	1.607
MLF56-16	22-18 to 16-14	Blue	Red (small end) & Blue (large end)	Seamless	.216	1.327	1.607
MLF56-14	16-14 to 12-10	Yellow	Blue (small end) & Yellow (large end)	Seamless	.279	1.439	1.738
MLF56-10	12-10 to 8	Pink	Yellow (small end) & Red (large end)	Seamless	.330	1.643	1.974

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

## Females

04/01/19



**RoHS**  
compliant

**NOTES:**

**BARE PART**

1. MATERIAL: BRASS
2. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C)  
CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>12</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Part #	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	L	
						Minimum	Maximum
MLF6-18-250F	22-18	.250	Red	.227	Butted with Sleeve	1.170	1.470
MLF6-14-250F	16-14	.250	Blue	.255	Butted with Sleeve	1.170	1.470
MLF6-10-250F	12-10	.250	Yellow	.320	Butted with Sleeve	1.160	1.470

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

**Males**

04/01/19



**RoHS**  
compliant

**NOTES:**

**BARE PART**

1. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C)  
CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Part #	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
						Minimum	Maximum
MLF6-18-250M	22-18	.250	Red	.227	Butted with Sleeve	1.227	1.554
MLF6-14-250M	16-14	.250	Blue	.255	Butted with Sleeve	1.227	1.554
MLF6-10-250M	12-10	.250	Yellow	.320	Butted with Sleeve	1.255	1.554

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations



National Standard Parts Associates, Inc.

# MultiLink - LEAD FREE

## Fully-Insulated Females

04/01/19



**NOTES:**

**BARE PART**

1. MATERIAL: BRASS
2. FINISH: ELECTRO-TIN PLATE

**SOLDER**

1. 42SN / 58BI
2. 2 - 3% RMA FLUX COATING
3. 280° F (138° C) MELTING TEMPERATURE

**TUBING**

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 275° F (135° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C) CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2200 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 27,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10<sup>15</sup> OHM-CM
12. NON-CORROSIVE
13. WATER ABSORPTION: 0.1%



Part #	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
						Minimum	Maximum
MLF6-18-250FF	22-18	.250	Red	.255	Butted with Sleeve	1.327	1.659
MLF6-14-250FF	16-14	.250	Blue	.255	Butted with Sleeve	1.327	1.659
MLF6-10-250FF	12-10	.250	Yellow	.320	Butted with Sleeve	1.327	1.659

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price  
VP, Operations