National Standard Parts Associates, Inc.

Krimpa-Seal

Ring Terminals

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

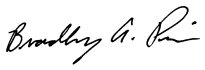
Standard Style

Long-Neck Style

Part #	AWG	Stud Size	Neck Style	Tubing Color	Barrel Seam	Tubing ID	Overall Length		Pad Width (+/- .05)
							Minimum	Maximum	
KS120-04	24-22	#4	Standard	Clear	Butted	.150	0.727	1.003	0.20
KS120-06	24-22	#6	Standard	Clear	Butted	.150	0.746	1.003	0.20
KS116-06	22-18	#6	Standard	Red	Brazed	.215	1.019	1.370	0.29
KS116-06L	22-18	#6	Long	Red	Brazed	.215	1.170	1.543	0.35
KS116-08	22-18	#8	Standard	Red	Brazed	.215	1.048	1.370	0.32
KS116-08L	22-18	#8	Long	Red	Brazed	.215	1.170	1.543	0.35
KS116-10	22-18	#10	Standard	Red	Brazed	.215	1.086	1.370	0.32
KS116-10L	22-18	#10	Long	Red	Brazed	.215	1.170	1.543	0.35
KS116-14	22-18	1/4"	Standard	Red	Brazed	.215	1.238	1.643	0.47
KS116-14L	22-18	1/4"	Long	Red	Brazed	.215	1.499	1.785	0.56
KS116-516	22-18	5/16"	Standard	Red	Brazed	.215	1.266	1.643	0.47
KS116-516L	22-18	5/16"	Long	Red	Brazed	.215	1.499	1.785	0.56
KS116-38	22-18	3/8"	Standard	Red	Brazed	.215	1.285	1.643	0.53
KS116-38L	22-18	3/8"	Long	Red	Brazed	.215	1.499	1.785	0.56
KS114-06	16-14	#6	Standard	Blue	Brazed	.235	1.019	1.370	0.29
KS114-06L	16-14	#6	Long	Blue	Brazed	.235	1.170	1.543	0.35
KS114-08	16-14	#8	Standard	Blue	Brazed	.235	1.038	1.370	0.32
KS114-08L	16-14	#8	Long	Blue	Brazed	.235	1.170	1.543	0.35
KS114-10	16-14	#10	Standard	Blue	Brazed	.235	1.048	1.370	0.32

Part #	AWG	Stud Size	Neck Style	Tubing Color	Barrel Seam	Tubing ID	Overall Length		Pad Width (+/- .05)
							Minimum	Maximum	
KS114-10L	16-14	#10	Long	Blue	Brazed	.235	1.170	1.543	0.35
KS114-14	16-14	1/4"	Standard	Blue	Brazed	.235	1.238	1.643	0.47
KS114-14L	16-14	1/4"	Long	Blue	Brazed	.235	1.360	1.751	0.56
KS114-516	16-14	5/16"	Standard	Blue	Brazed	.235	1.266	1.643	0.47
KS114-516L	16-14	5/16"	Long	Blue	Brazed	.235	1.360	1.751	0.56
KS114-38	16-14	3/8"	Standard	Blue	Brazed	.235	1.285	1.643	0.53
KS114-38L	16-14	3/8"	Long	Blue	Brazed	.235	1.360	1.751	0.56
KS110-06	12-10	#6	Standard	Yellow	Brazed	.310	1.048	1.370	0.35
KS110-06L	12-10	#6	Long	Yellow	Brazed	.310	1.163	1.534	0.34
KS110-08	12-10	#8	Standard	Yellow	Brazed	.310	1.086	1.370	0.34
KS110-08L	12-10	#8	Long	Yellow	Brazed	.310	1.163	1.534	0.35
KS110-10	12-10	#10	Standard	Yellow	Brazed	.310	1.105	1.370	0.34
KS110-10L	12-10	#10	Long	Yellow	Brazed	.310	1.163	1.534	0.35
KS110-14	12-10	1/4"	Standard	Yellow	Brazed	.310	1.247	1.633	0.56
KS110-14L	12-10	1/4"	Long	Yellow	Brazed	.310	1.360	1.751	0.56
KS110-516	12-10	5/16"	Standard	Yellow	Brazed	.310	1.304	1.633	0.56
KS110-516L	12-10	5/16"	Long	Yellow	Brazed	.310	1.360	1.751	0.56
KS110-38	12-10	3/8"	Standard	Yellow	Brazed	.310	1.314	1.633	0.56
KS110-38L	12-10	3/8"	Long	Yellow	Brazed	.310	1.360	1.751	0.56
KS110-38WL	12-10	3/8"	Long	Yellow	Brazed	.310	1.583	1.869	0.69
KS110-12	12-10	1/2"	Standard	Yellow	Brazed	.310	1.447	1.843	0.71
KS110-12L	12-10	1/2"	Long	Yellow	Brazed	.310	1.583	1.869	0.69
KS108-10	8	#10	Standard	Pink	Brazed	.330	1.217	1.617	0.47
KS108-14	8	1/4"	Standard	Pink	Brazed	.330	1.369	1.796	0.47
KS108-516	8	5/16"	Standard	Pink	Brazed	.330	1.426	1.796	0.59
KS108-38	8	3/8"	Standard	Pink	Brazed	.330	1.435	1.796	0.59
KS108-12	8	1/2"	Standard	Pink	Brazed	.330	1.500	2.500	0.71

Reviewed & Approved By:



Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Lug Style Terminals

4/1/2019

RoHS compliant

NOTES:

BARE PART

1. MATERIAL: COPPER
2. FINISH: TIN PLATE

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: 2500 PSI
6. ULTIMATE ELONGATION: 400%
7. SECANT MODULUS, 2%: 32,000 PSI
8. SPECIFIC GRAVITY: 1.0
9. LONGITUDINAL CHANGE: +1, -10%
10. DIELECTRIC STRENGTH: 900 V/MIL
11. VOLUME RESISTIVITY: 10^{14} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: .1%

Part #	AWG	Stud Size	Tubing Color	Tubing ID	Barrel	Overall Length		Pad Width
						Minimum	Maximum	
KS108L-10	8	#10	Pink	.360	Closed End	1.55	1.90	0.45 (+/- 0.05)
KS108L-14	8	1/4"	Pink	.360	Closed End	1.55	1.90	0.45 (+/- 0.05)
KS108L-516	8	5/16"	Pink	.360	Closed End	1.55	1.90	0.45 (+/- 0.05)
KS108L-38	8	3/8"	Pink	.360	Closed End	1.65	2.05	0.60 (+/- 0.05)
KS108L-12	8	1/2"	Pink	.360	Closed End	1.75	2.15	0.76 (+/- 0.05)

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Multi-Stud Ring Terminals

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Stud Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length		Pad Width (+/- .05)
						Minimum	Maximum	
KS116-MS	22-18	# 6, 8, 10	Red	.215	Brazed	1.171	1.486	0.34
KS114-MS	16-14	# 6, 8, 10	Blue	.235	Brazed	1.171	1.486	0.34

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Spade Terminals (Standard)

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Standard Neck

Long-Neck Style

Part #	AWG	Stud Size	Neck Style	Tubing Color	Tubing ID	Barrel Seam	Overall Length		Pad Width (+/- .05)
							Minimum	Maximum	
KS220-04	24-22	#4	Standard	Clear	.150	Butted	0.717	1.003	0.20
KS220-06	24-22	#6	Standard	Clear	.150	Butted	0.774	1.076	0.25
KS216-06	22-18	#6	Standard	Red	.215	Brazed	1.038	1.381	0.27
KS216-06L	22-18	#6	Long	Red	.215	Brazed	1.223	1.652	0.35
KS216-08	22-18	#8	Standard	Red	.215	Brazed	1.076	1.381	0.31
KS216-10	22-18	#10	Standard	Red	.215	Brazed	1.095	1.381	0.31
KS216-10L	22-18	#8 - #10	Long	Red	.215	Brazed	1.205	1.631	0.35
KS214-06	16-14	#6	Standard	Blue	.235	Brazed	1.038	1.381	0.27
KS214-06L	16-14	#6	Long	Blue	.235	Brazed	1.223	1.652	0.35
KS214-08	16-14	#8	Standard	Blue	.235	Brazed	1.076	1.381	0.31
KS214-10	16-14	#10	Standard	Blue	.235	Brazed	1.095	1.381	0.31
KS214-10L	16-14	#8 - #10	Long	Blue	.235	Brazed	1.205	1.631	0.35
KS210-06	12-10	#6	Standard	Yellow	.310	Brazed	1.067	1.391	0.35
KS210-08	12-10	#8	Standard	Yellow	.310	Brazed	1.095	1.391	0.35
KS210-10	12-10	#10	Standard	Yellow	.310	Brazed	1.105	1.391	0.35
KS210-10L	12-10	#8 - #10	Long	Yellow	.310	Brazed	1.193	1.619	0.35
KS210-14	12-10	1/4"	Standard	Yellow	.310	Butted	1.266	1.622	0.48
KS210-14L	12-10	1/4"	Long	Yellow	.310	Butted	1.373	1.817	0.56

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Spade Terminals (Flange)

4/1/2019

RoHS compliant

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Stud Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length		Pad Width (+/- .05)
						Minimum	Maximum	
KS316-06	22-18	#6	Red	.215	Brazed	1.038	1.328	0.30
KS316-08	22-18	#8	Red	.215	Brazed	1.057	1.328	0.30
KS316-10	22-18	#10	Red	.215	Brazed	1.076	1.328	0.30
KS314-06	16-14	#6	Blue	.235	Brazed	1.038	1.328	0.30
KS314-08	16-14	#8	Blue	.235	Brazed	1.057	1.328	0.30
KS314-10	16-14	#10	Blue	.235	Brazed	1.076	1.328	0.30
KS310-06	12-10	#6	Yellow	.310	Brazed	1.057	1.391	0.32
KS310-08	12-10	#8	Yellow	.310	Brazed	1.086	1.391	0.32
KS310-10	12-10	#10	Yellow	.310	Brazed	1.095	1.391	0.32

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Spade Terminals (Spring)

4/1/2019

RoHS compliant

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Stud Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length		Pad Width (+/- .05)
						Minimum	Maximum	
KS316S-06	22-18	#6	Red	.215	Butted	1.086	1.370	0.25
KS316S-08	22-18	#8	Red	.215	Butted	1.086	1.370	0.30
KS316S-10	22-18	#10	Red	.215	Butted	1.105	1.370	0.30
KS314S-06	16-14	#6	Blue	.235	Butted	1.038	1.339	0.25
KS314S-08	16-14	#8	Blue	.235	Butted	1.095	1.370	0.30
KS314S-10	16-14	#10	Blue	.235	Butted	1.114	1.370	0.32
KS314S-14	16-14	.25"	Blue	.235	Butted	1.053	1.325	0.30
KS310S-06	12-10	#6	Yellow	.310	Butted	1.086	1.402	0.28
KS310S-08	12-10	#8	Yellow	.310	Butted	1.114	1.402	0.32
KS310S-10	12-10	#10	Yellow	.310	Butted	1.124	1.402	0.32

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Hook Terminal

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Stud Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length		Pad Width (+/- .05)
						Minimum	Maximum	
KS414-10	16-14	#10	Blue	.235	Brazed	1.086	1.370	0.34

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Butt Connectors

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
					Minimum	Maximum
KS5-20	24-22	Clear	.125	Seamless	0.875	1.082
KS5-16	22-18	Red	.186	Seamless	1.327	1.607
KS5-14	16-14	Blue	.216	Seamless	1.327	1.607
KS5-10	12-10	Yellow	.279	Seamless	1.439	1.738
KS5-08	8	Pink	.360	Seamless	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.

Krimpa-Seal

Window Butt Connectors

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
					Minimum	Maximum
KS55-16	22-18	Red	.186	Seamless	1.327	1.607
KS55-14	16-14	Blue	.216	Seamless	1.327	1.607
KS55-10	12-10	Yellow	.279	Seamless	1.439	1.738

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

"Old School" (Heat Shrink over Nylon) Butt Connectors

4/1/2019

RoHS compliant

NOTES:

UNDERLYING CONNECTOR

1. MATERIAL: NYLON OVER COPPER SUB-COMPONENT
2. SUB-COMPONENT FINISH: ELECTRO-TIN PLATE

TUBING

1. MULTIPLE WALL POLYOLEFIN
2. MELTABLE, INTEGRAL INNER WALL
3. 250° F (121° C) SHRINK TEMPERATURE
4. -67° F (-55° C) TO 230° F (110° C) CONTINUOUS OPERATING TEMP.
5. TENSILE STRENGTH: 2100 PSI
6. ULTIMATE ELONGATION: 450%
7. SECANT MODULUS, 2%: 17,000 PSI
8. SPECIFIC GRAVITY: 1.3
9. LONGITUDINAL CHANGE: +1, -15%
10. DIALECTRIC STRENGTH: 700 V/MIL
11. VOLUME RESISTIVITY: 10^{14} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.3%

Part #	AWG	Tubing Color	Connector Color	Tubing ID	Overall Length	
					Minimum	Maximum
KS5-16-CLN	22-18	Clear	Red	.187	1.75	2.25
KS5-14-CLN	16-14	Clear	Blue	.250	1.75	2.25
KS5-10-CLN	12-10	Clear	Yellow	.375	1.75	2.25

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Bradley G. Price

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Stepdown Butt Connectors

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Tubing Color	Barrel Band Colors	Barrel Seam	Tubing ID	Overall Length	
						Minimum	Maximum
KS56-20	24-22 to 22-18	Red	White (small end) & Red (large end)	Seamless	.186	1.327	1.607
KS56-16	22-18 to 16-14	Blue	Red (small end) & Blue (large end)	Seamless	.216	1.327	1.607
KS56-14	16-14 to 12-10	Yellow	Blue (small end) & Yellow (large end)	Seamless	.279	1.439	1.738
KS56-10	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.

Krimpa-Seal

3-Way Connectors

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Tubing Color	Tubing ID	Barrel Seam	"Leg" Length	
					Minimum	Maximum
KS53-16	22-18	Red	.215	Brazed	1.105	1.370
KS53-14	16-14	Blue	.235	Brazed	1.105	1.370
KS53-10	12-10	Yellow	.310	Brazed	1.100	1.400

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Bradley A. Price

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

4-Way Connectors

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Tubing Color	Tubing ID	Barrel Seam	"Leg" Length	
					Minimum	Maximum
KS54-16	22-18	Red	.215	Brazed	1.105	1.370
KS54-14	16-14	Blue	.235	Brazed	1.105	1.370
KS54-10	12-10	Yellow	.310	Brazed	1.152	1.412

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Females

4/1/2019

RoHS compliant

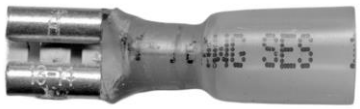
NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%



Part #	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
						Minimum	Maximum
KS6-18-110F	22-18	.110	Red	.215	Butted with Sleeve	1.019	1.255
KS6-18-187F	22-18	.187	Red	.215	Butted with Sleeve	1.019	1.307
KS6-18-250F	22-18	.250	Red	.215	Butted with Sleeve	1.057	1.339
KS6-14-110F	16-14	.110	Blue	.235	Butted with Sleeve	1.019	1.255
KS6-14-187F	16-14	.187	Blue	.235	Butted with Sleeve	1.019	1.307
KS6-14-250F	16-14	.250	Blue	.235	Butted with Sleeve	1.057	1.339
KS6-10-250F	12-10	.250	Yellow	.310	Butted with Sleeve	1.048	1.339

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Males

4/1/2019

RoHS compliant

NOTES:

BARE PART

1. FINISH: ELECTRO-TIN PLATE

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
						Minimum	Maximum
KS6-18-110M	22-18	.110	Red	.215	Butted with Sleeve	1.048	1.349
KS6-18-187M	22-18	.187	Red	.215	Butted with Sleeve	1.010	1.265
KS6-18-250M	22-18	.250	Red	.215	Butted with Sleeve	1.114	1.423
KS6-14-110M	16-14	.110	Blue	.235	Butted with Sleeve	1.048	1.349
KS6-14-187M	16-14	.187	Blue	.235	Butted with Sleeve	1.010	1.265
KS6-14-250M	16-14	.250	Blue	.235	Butted with Sleeve	1.114	1.423
KS6-10-250M	12-10	.250	Yellow	.310	Butted with Sleeve	1.143	1.423

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Fully Insulated Females

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	Style	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Underlying Connector Insulation	Overall Length	
								Minimum	Maximum
KS60-18-250F	Molex-Etc. - 1 Hump	22-18	.250	Red	.260	Butted	Nylon	1.184	1.533
KS60-14-250F	Molex-Etc. - 1 Hump	16-14	.250	Blue	.260	Butted	Nylon	1.184	1.533
KS60-10-250F	Molex-Etc. - 1 Hump	12-10	.250	Yellow	.340	Butted	Nylon	1.184	1.680
KS61-18-250F	Standard - 2 Humps	22-18	.250	Red	.260	Butted	Nylon	1.213	1.523
KS61-14-250F	Standard - 2 Humps	16-14	.250	Blue	.260	Butted	Nylon	1.213	1.523
KS61-10-250F	Standard - 2 Humps	12-10	.250	Yellow	.340	Butted	Nylon	1.213	1.523
KS66-18-110F	Standard - No Humps	22-18	.110	Red	.260	Butted with Sleeve	n/a (Bare)	1.108	1.418
KS66-18-187F	Standard - 2 Humps	22-18	.187	Red	.260	Butted	Nylon	1.232	1.659
KS66-18-250F	Standard - 2 Humps	22-18	.250	Red	.260	Butted	Nylon	1.184	1.502
KS66-14-110F	Standard - No Humps	16-14	.110	Blue	.255	Butted with Sleeve	n/a (Bare)	0.875	1.082
KS66-14-187F	Standard - 2 Humps	16-14	.187	Blue	.260	Butted	Nylon	1.232	1.659
KS66-14-250F	Standard - 2 Humps	16-14	.250	Blue	.255	Butted	Nylon	1.184	1.502
KS66-10-250F	Standard - 2 Humps	12-10	.250	Yellow	.340	Butted	Nylon	1.232	1.565
KS67-18-250F	3M - 2 Humps	22-18	.250	Red	.260	Butted	Nylon	1.213	1.523
KS67-14-250F	3M - 2 Humps	16-14	.250	Blue	.260	Butted	Nylon	1.213	1.523
KS67-10-250F	3M - 2 Humps	12-10	.250	Yellow	.340	Butted	Nylon	1.213	1.523
KS69-18-250F	Clear with Bands - 2 Humps	22-18	.250	Red	.260	Butted with Sleeve	Nylon	1.213	1.523
KS69-14-250F	Clear with Bands - 2 Humps	16-14	.250	Blue	.260	Butted with Sleeve	Nylon	1.213	1.523
KS69-10-250F	Clear with Bands - 2 Humps	12-10	.250	Yellow	.340	Butted with Sleeve	Nylon	1.213	1.523

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Fully-Insulated Flag Females

4/1/2019

NOTES:

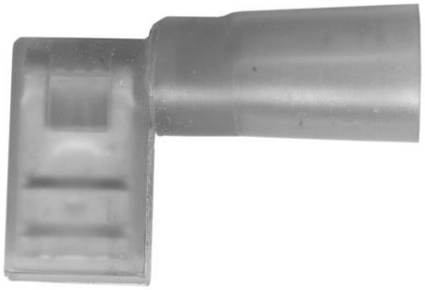
RoHS compliant

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%



Part #	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Underlying Connector Insulation	Overall Length	
							Minimum	Maximum
KS68-18-250F	22-18	.250	Red	.260	Butted	Nylon	0.948	1.239
KS68-14-250F	16-14	.250	Blue	.260	Butted	Nylon	0.948	1.239

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Bradley A. Price

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Fully Insulated Males

4/1/2019

RoHS compliant

NOTES:

BARE PART

1. FINISH: ELECTRO-TIN PLATE
2. NYLON INSULATED

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	Style	AWG	Tab Size	Tubing Color	Tubing ID	Barrel Seam	Underlying Connector Insulation	Overall Length	
								Minimum	Maximum
KS60-18-250M	Molex-Etc. - 1 Hump	22-18	.250	Red	.260	Butted	Nylon	1.232	1.617
KS60-14-250M	Molex-Etc. - 1 Hump	16-14	.250	Blue	.260	Butted	Nylon	1.232	1.617
KS60-10-250M	Molex-Etc. - 1 Hump	12-10	.250	Yellow	.340	Butted	Nylon	1.232	1.764
KS61-18-250M	Standard - 2 Humps	22-18	.250	Red	.260	Butted	Nylon	1.232	1.638
KS61-14-250M	Standard - 2 Humps	16-14	.250	Blue	.260	Butted	Nylon	1.232	1.638
KS61-10-250M	Standard - 2 Humps	12-10	.250	Yellow	.340	Butted	Nylon	1.232	1.638
KS66-18-187M	Standard - 2 Humps	22-18	.187	Red	.260	Butted	Nylon	1.232	1.659
KS66-18-250M	Standard - 2 Humps	22-18	.250	Red	.260	Butted	Nylon	1.232	1.554
KS66-14-187M	Standard - 2 Humps	16-14	.187	Blue	.260	Butted	Nylon	1.232	1.659
KS66-14-250M	Standard - 2 Humps	16-14	.250	Blue	.260	Butted	Nylon	1.232	1.554
KS66-10-250M	Standard - 2 Humps	12-10	.250	Yellow	.340	Butted	Nylon	1.232	1.659
KS67-18-250M	3M - 2 Humps	22-18	.250	Red	.260	Butted	Nylon	1.232	1.638
KS67-14-250M	3M - 2 Humps	16-14	.250	Blue	.260	Butted	Nylon	1.232	1.638
KS67-10-250M	3M - 2 Humps	12-10	.250	Yellow	.340	Butted	Nylon	1.232	1.638
KS69-18-250M	Clear with Bands - 2 Humps	22-18	.250	Red	.260	Butted with Sleeve	Nylon	1.232	1.638
KS69-14-250M	Clear with Bands - 2 Humps	16-14	.250	Blue	.260	Butted with Sleeve	Nylon	1.232	1.638
KS69-10-250M	Clear with Bands - 2 Humps	12-10	.250	Yellow	.340	Butted with Sleeve	Nylon	1.232	1.638

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Bullet Receptacles

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	For Plug Diameter	Tubing Color	Tubing ID	Barrel Seam	Underlying Connector Insulation	Overall Length	
							Minimum	Maximum
KS7-18-15F	20-18	.157	Red	.260	Butted with Sleeve	Nylon	1.365	1.712
KS7-18-18F	20-18	.180	Red	.260	Butted with Sleeve	Nylon	1.365	1.712
KS7-14-15F	16-14	.157	Blue	.260	Butted with Sleeve	Nylon	1.365	1.712
KS7-14-18F	16-14	.180	Blue	.260	Butted with Sleeve	Nylon	1.365	1.712
KS7-14-195F	16-14	.195	Blue	.260	Butted with Sleeve	Nylon	1.365	1.712

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Brad Price
VP, Operations

National Standard Parts Associates, Inc.

Krimpa-Seal

Bullet Plugs

4/1/2019

RoHS compliant

NOTES:

BARE PART

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

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^{15} OHM-CM
12. NON-CORROSIVE
13. WATER ABSORBTION: 0.1%

Part #	AWG	Plug Diameter	Tubing Color	Tubing ID	Barrel Seam	Overall Length	
						Minimum	Maximum
KS7-18-15M	20-18	.157	Red	.215	Butted with Sleeve	1.124	1.423
KS7-18-18M	20-18	.180	Red	.215	Butted with Sleeve	1.095	1.391
KS7-14-15M	16-14	.157	Blue	.235	Butted with Sleeve	1.124	1.423
KS7-14-18M	16-14	.180	Blue	.235	Butted with Sleeve	1.095	1.391
KS7-14-195M	16-14	.195	Blue	.235	Butted with Sleeve	1.095	1.391

All dimensions are measured in inches except where noted.

Reviewed & Approved By:

Bradley A. Price

Brad Price
VP, Operations