Percon®HS-95 Copper Alloy Conductor Wire

Introduction

Percon® HS-95 is a high strength alloy optimally suited for fine and ultra-fine single end wire and stranded constructions. The alloy is engineered and so named to provide a minimum tensile strength of 95,000 psi in soft tempter. This provides more than half the conductor break strength specified in ASTM B 624 or, conversely, the same conductor strength but at two AWG wire sizes smaller.

Key Attributes

- Very high strength alloy conductor.
- Resists thermal softening when exposed to elevated temperatures.
- Excellent resistance to corrosive environments.
- Has identical chemical, mechanical, and electrical properties to CS-95.

Percon HS-95 is available plated with silver or nickel. To learn more please contact our sales department.

Fisk Alloy Wire Inc.
P.O. Box 26
10 Thomas Road N.
Hawthorne, NJ 07506 U.S.A.

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Specifications
AS29606
SAE 29606
W-29606

Physical Properties

SOFT	
Available Platings	Ag, Ni
Elongation	6%
Tensile	95 ksi
Electrical Conductivity	63% IACS @ 68 °F
Electrical Resistivity	16.5 Ω-cmil/ft @ 68 ºF
Density	0.317 lb/in³
Coefficient of Thermal Resistance	0.0011 per °F
Melting Point (Solidus)	1,885 °F
Melting Point (Liquidus)	1,955 °F

HARD	
Available Platings	Ag, Ni, Sn
Elongation	1%
Tensile	130 ksi
Electrical Conductivity	40% IACS @ 68 °F
Electrical Resistivity	25.9 Ω-cmil/ft @ 68 ºF
Density	0.317 lb/in³
Coefficient of Thermal Resistance	0.0011 per °F
Melting Point (Solidus)	1,885 °F
Melting Point (Liquidus)	1,955 °F

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19-Strand

SILVER PLATED PERCON HS-95 - SOFT (40 MICRO-INCH SILVER THICKNESS)								
AWG	CONST	STANDARD PLATE (%)	DIAMETER (inch)			RESIST (Ω/mft) Max	WEIGHT (lb/mft) Max	BREAK STRG (lb) Min
			Nom	Min	Max			
18	19/30	2	0.0472	0.0467	0.0477	9.08	5.90	138
20	19/32	2.5	0.0378	0.0372	0.0383	14.2	3.80	88.4
22	19/34	3	0.0298	0.0292	0.0303	23.0	2.37	54.4
24	19/36	4	0.0236	0.0231	0.0241	36.6	1.51	34.0
26	19/38	5	0.0189	0.0184	0.0194	57.8	0.978	21.5
28	19/40	6.1	0.0147	0.0141	0.0152	97.6	0.597	12.7
30	19/42	8	0.0118	0.0113	0.0123	152	0.396	8.16
32[1]	19/44	10	0.00970	0.00896	0.0105	245	0.259	5.11
34[1,2]	19/46	10	0.00770	0.00708	0.00840	409	0.165	3.06
(1) True Concentric (2) These single end sizes will not have 40 micro-inches of silver								

7-Strand

SILVER PLATED PERCON HS-95 - SOFT (40 MICRO-INCH SILVER THICKNESS)								
AWG	CONST	STANDARD PLATE (%)	DIAMETER (inch)			RESIST (Ω/mft) Max	WEIGHT (lb/mft) Max	BREAK STRG (lb) Min
			Nom	Min	Max			
22	7/30	2	0.0300	0.0297	0.0303	24.7	2.20	51.1
24	7/32	2.5	0.0240	0.0237	0.0243	38.4	1.41	32.5
26	7/34	3	0.0189	0.0186	0.0192	61.9	0.879	20.0
28	7/36	4	0.0150	0.0147	0.0153	99.2	0.558	12.5
30	7/38	5	0.0120	0.0117	0.0123	157	0.361	7.94
32	7/40	6.1	0.00930	0.00900	0.00960	265	0.221	4.70
34	7/42	8	0.00750	0.00720	0.00780	413	0.147	3.00

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AWG	CONST	STANDARD PLATE (%)	DIAMETER (inch)			RESIST (Ω/mft) Max	WEIGHT (lb/mft) Max	BREAK STRG (lb) Min
			Nom	Min	Max			
36	7/44	10	0.00600	0.00570	0.00630	660	0.0953	1.88
38	7/46	10	0.00470	0.00440	0.00500	1,102	0.0602	1.12
40	7/48	10	0.00370	0.00340	0.00400	1,833	0.0388	0.679
42(1)	7/50	10	0.00300	0.00270	0.00330	3,008	0.0257	0.414
44(1)	7/52	10	0.00230	0.00219	0.00250	4,460	0.0150	0.278
46(1)	7/54	10	0.00190	0.00170	0.00201	7,320	0.00970	0.169
(1) These single end sizes will not have 40 micro-inches of silver								

Single End

SILVER PLATED PERCON HS-95 - SOFT (40 MICRO-INCH SILVER THICKNESS)								
AWG	CONST	STANDARD PLATE (%)	DIAMETER (inch)			RESIST (Ω/mft) Max	WEIGHT (lb/mft) Max	BREAK STRG (lb) Min
			Nom	Min	Max			
30	SE	2	0.0100	0.00990	0.0101	171	0.310	7.31
31	SE	2.5	0.00890	0.00880	0.00900	215	0.243	5.77
32	SE	2.5	0.00800	0.00790	0.00810	266	0.197	4.65
33	SE	3	0.00710	0.00700	0.00720	338	0.156	3.65
34	SE	3	0.00630	0.00620	0.00640	429	0.123	2.86
35	SE	4	0.00560	0.00550	0.00570	545	0.0980	2.25
36	SE	4	0.00500	0.00490	0.00510	686	0.0780	1.79
37	SE	5	0.00450	0.00435	0.00460	870	0.0640	1.41
38	SE	5	0.00400	0.00390	0.00410	1,090	0.0510	1.12
39	SE	6.1	0.00350	0.00340	0.00363	1,400	0.0397	0.863

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Single End

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AWG	CONST	STANDARD PLATE (%)	DIAMETER (inch)			RESIST (Ω/mft) Max	WEIGHT (lb/mft) Max	BREAK STRG (lb) Min
			Nom	Min	Max			
40	SE	6.1	0.00310	0.00300	0.00320	1,830	0.0310	0.671
41	SE	8	0.00280	0.00270	0.00290	2,260	0.0260	0.543
42	SE	8	0.00250	0.00240	0.00260	2,860	0.0205	0.429
43	SE	10	0.00220	0.00210	0.00232	3,670	0.0163	0.329
44	SE	10	0.00200	0.00190	0.00210	4,570	0.0134	0.269
45(1)	SE	12	0.00180	0.00166	0.00186	10,800	0.0105	0.281
46(1)	SE	12	0.00160	0.00147	0.00167	13,200	0.00900	0.173
47(1)	SE	15	0.00140	0.00130	0.00150	16,900	0.00700	0.161
48(1)	SE	15	0.00130	0.00118	0.00134	21,300	0.00600	0.133
49(1,2)	SE	15	0.00110	0.00101	0.00121	26,900	0.00500	0.104
50(1,2)	SE	15	0.00100	0.000890	0.00109	33,600	0.00400	0.0810
51(1,2)	SE	15	0.000900	0.000810	0.00960	43,300	0.00300	0.0660
52(1,2)	SE	15	0.000800	0.000710	0.000860	55,700	0.00210	0.0510
53(1,2)	SE	15	0.000700	0.000650	0.000750	70,800	0.00170	0.0427
54(1,2)	SE	15	0.000600	0.000570	0.000670	91,300	0.00137	0.0330
(1) These single end sizes will be hard temper (2) These single end sizes will not have 40 micro-inches of silver								

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