

HiTemp® Compression Accessories for C7® ACCS/TW and ZTACCR/TW Conductors

C7 Overhead Conductor features a multi-stranded, carbon-fiber composite core providing greater flexibility, reliability and single-point of failure tolerance. With its stranded thermoset polymer composite core, C7 Overhead Conductor has an unprecedented sag/tension performance and a 40+ year service life expectancy.



Shown clockwise (left to right): GSA Formed Wire Suspension, Vibration Damper, Dead End Assembly, HIBUS® Suspension, Repair Sleeve, Armor Rods and 15° Terminal

Features

- Stranded carbon fiber composite core
- Improved flexibility
- Proven robust materials
- Low sag due to:
 - Minimal thermal expansion
 - Higher strength
 - Lower weight
- Aluminum-Zirconium alloy (Al-Zr) and annealed aluminum (1350-O) options
- Round wire and trap wire (TW) options
- Conventional installation techniques

Applications

- 180/200°C continuous/emergency ratings
- High-temperature operation, increased thermal capacity
- Options for all loading districts

Quick Reference Guide for HiTemp® Compression Accessories for C7® ACCS/TW and ZTACCR/TW Conductors

Conductor		Type No.	Cross Section Area (in ²)		Stranding		Diameter		Compression Accessories Catalog Numbers							
Code Word	Size (kcmil)		Alum.	Total	No. of AL TW Strands	C7 Strands (in)	C7 Core (in)	Compl. Cond. (in)	Dead End Assembly (incl. 15° Terminal)	Splice	Terminal Tap*	Repair Sleeve*	Damper (Bare Cond.)	HIBUS® Susp.	GSA-FW Susp.	Armor Rod
Shenandoah/TW	266.8	21	0.2095	0.2533	14	7 x 0.0892	0.2677	0.608	B12993-K-C7T	B12994-K-C7T	5376HTSP	5276HTSP	1702-5	HCSHT600	GSA90-1572HT	AAR154
Olympic/TW	325.0	17	0.2553	0.2990	20	7 x 0.0892	0.2677	0.671	B12993-C-C7T	B12994-C-C7T	5376HTSP	5276HTSP	1702-5	HCSHT667	GSA98-1709HT	AAR166
Wrangell/TW	336.4	17	0.2642	0.3080	20	7 x 0.0892	0.2677	0.681	B12993-L-C7T	B12994-L-C7T	5376HTSP	5276HTSP	1704-6	HCSHT667	GSA98-1753HT	AAR172
Badlands/TW	336.4	22	0.2642	0.3218	16	7 x 0.1024	0.3071	0.685	B12993-M-C7T	B12994-M-C7T	5376HTSP	5276HTSP	1704-6	HCSHT682	GSA98-1753HT	AAR172
Andes/TW	397.5	14	0.3122	0.3560	18	7 x 0.0892	0.2677	0.710	B12993-N-C7T	B12994-N-C7T	5376HTSP	5276HTSP	1704-6	HCSHT697	GSA98-1803HT	AAR179
Joshua Tree/TW	397.5	16	0.3122	0.3627	18	7 x 0.0958	0.2874	0.718	B12993-P-C7T	B12994-P-C7T	5376HTSP	5276HTSP	1704-6	HCSHT710	GSA98-1857HT	AAR179
Sequoia/TW	397.5	22	0.3122	0.3806	18	7 x 0.1115	0.3346	0.738	B12993-R-C7T	B12994-R-C7T	5376HTSP	5276HTSP	1704-6	HCSHT710	GSA98-1905HT	AAR179
Rogers/TW	477.0	13	0.3746	0.4251	18	7 x 0.0958	0.2874	0.778	B12993-S-C7T	B12994-S-C7T	5324.3HTSP	5224.3HTSP	1705-7	HCSHT756	GSA115-201HT	AAR188
Yosemite/TW	477.0	15	0.3746	0.4322	18	7 x 0.1024	0.3071	0.787	B12993-T-C7T	B12994-T-C7T	5324.3HTSP	5224.3HTSP	1705-7	HCSHT756	GSA115-201HT	AAR199
Capitol Reef/TW	477.0	23	0.3746	0.4601	20	7 x 0.1247	0.3740	0.820	B12993-W-C7T	B12994-W-C7T	5324.3HTSP	5224.3HTSP	1705-7	HCSHT800	GSA115-209HT	AAR207
Tortugas/TW	636.0	10	0.4995	0.5500	20	7 x 0.0958	0.2874	0.880	B12993-Y-C7T	B12994-Y-C7T	5324.3HTSP	5224.3HTSP	1705-8	HCSHT880	GSA115-226HT	AAR215
Yellowstone/TW	636.0	12	0.4995	0.5571	16	7 x 0.1024	0.3071	0.887	B12993-Z-C7T	B12994-Z-C7T	5324.3HTSP	5224.3HTSP	1705-8	HCSHT880	GSA115-226HT	AAR215
Glacier/TW	636.0	15	0.4995	0.5762	20	7 x 0.1181	0.3543	0.905	B12993-AA-C7T	B12994-AA-C7T	5327.3HTSP	5227.3HTSP	1705-8	HCSHT880	GSA115-230HT	AAR215
Carlsbad/TW	636.0	22	0.4995	0.6100	22	7 x 0.1417	0.4252	0.948	B12993-AB-C7T	B12994-AB-C7T	5327.3HTSP	5227.3HTSP	1705-8	HCSHT932	GSA127-244HT	AAR236
Congaree/TW	641.7	11	0.5040	0.5616	16	7 x 0.1024	0.3071	0.890	B12993-A-C7T	B12994-A-C7T	5327.3HTSP	5227.3HTSP	1705-8	HCSHT880	GSA115-226HT	AAR215
Vinson/TW	714.0	10	0.5608	0.6184	16	7 x 0.1024	0.3071	0.933	B12993-F-C7T	B12994-F-C7T	5327.3HTSP	5227.3HTSP	1705-8	HCSHT932	GSA127-238HT	AAR236
Kilimanjaro/TW	795.0	7	0.6244	0.6682	20	7 x 0.0892	0.2677	0.962	B12993-AC-C7T	B12994-AC-C7T	5330.3HTSP	5230.3HTSP	1705-8	HCSHT932	GSA127-244HT	AAR236
Alps/TW	795.0	9	0.6244	0.6820	20	7 x 0.1024	0.3071	0.974	B12993-AD-C7T	B12994-AD-C7T	5330.3HTSP	5230.3HTSP	1706AA-9	HCSHT932	GSA127-250HT	AAR236
Wind Cave/TW	795.0	12	0.6244	0.7011	20	7 x 0.1181	0.3543	0.990	B12993-AE-C7T	B12994-AE-C7T	5330.3HTSP	5230.3HTSP	1706AA-9	HCSHT981	GSA127-255HT	AAR248
Denali/TW	795.0	16	0.6244	0.7268	20	7 x 0.1365	0.4094	1.010	B12993-AF-C7T	B12994-AF-C7T	5330.3HTSP	5230.3HTSP	1706AA-9	HCSHT981	GSA145-259HT	AAR248
Rocky/TW	795.0	22	0.6244	0.7607	24	7 x 0.1575	0.4724	1.044	B12993-AG-C7T	B12994-AG-C7T	5330.3HTSP	5230.3HTSP	1706AA-9	HCSHT1028	GSA145-272HT	AAR263
Crater Lake/TW	954.0	7	0.7493	0.7997	34	7 x 0.0958	0.2874	1.058	B12993-H-C7T	B12994-H-C7T	5330.3HTSP	5230.3HTSP	1706AA-9	HCSHT1028	GSA145-272HT	AAR263
Fuji/TW	954.0	12	0.7493	0.8421	20	7 x 0.1299	0.3898	1.077	B12993-AH-C7T	B12994-AH-C7T	5330.3HTSP	5230.3HTSP	1706AA-9	HCSHT1073	GSA145-276HT	AAR270
Jasper/TW	954.0	16	0.7493	0.8680	22	7 x 0.1470	0.4409	1.104	B12993-AK-C7T	B12994-AK-C7T	5330.3HTSP	5230.3HTSP	1706AA-10	HCSHT1073	GSA145-284HT	AAR279
Archies/TW	954.0	20	0.7493	0.8972	24	7 x 0.1640	0.4921	1.128	B12993-AL-C7T	B12994-AL-C7T	5330.3HTSP	5230.3HTSP	1706AA-10	HCSHT1116	GSA145-288HT	AAR279
Everglades/TW	973.1	14	0.7643	0.8747	20	7 x 0.1417	0.4252	1.108	B12993-B-C7T	B12994-B-C7T	5330.3HTSP	5230.3HTSP	1706AA-10	HCSHT1073	GSA145-284HT	AAR279
Big Bend/TW	1033.5	5	0.8117	0.8555	34	7 x 0.0892	0.2677	1.093	B12993-AM-C7T	B12994-AM-C7T	5330.3HTSP	5230.3HTSP	1706AA-10	HCSHT1073	GSA145-284HT	AAR270
Lassen/TW	1033.5	7	0.8117	0.8693	34	7 x 0.1024	0.3071	1.103	B12993-AN-C7T	B12994-AN-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1073	GSA145-284HT	AAR279
Samoa/TW	1033.5	13	0.8117	0.9141	22	7 x 0.1365	0.4094	1.130	B12993-AP-C7T	B12994-AP-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1116	GSA145-284HT	AAR279
Cook/TW	1113.0	5	0.8741	0.9179	30	7 x 0.0892	0.2677	1.125	B12993-AR-C7T	B12994-AR-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1116	GSA145-288HT	AAR279
Blanc/TW	1113.0	7	0.8741	0.9318	34	7 x 0.1024	0.3071	1.139	B12993-AS-C7T	B12994-AS-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1116	GSA145-292HT	AAR279
Gannett/TW	1113.0	13	0.8741	0.9846	38	7 x 0.1417	0.4252	1.181	B12993-AT-C7T	B12994-AT-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1157	GSA145-306HT	AAR295
Washington/TW	1192.5	5	0.9366	0.9804	34	7 x 0.0892	0.2677	1.166	B12993-AW-C7T	B12994-AW-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1157	GSA145-298HT	AAR295
Elbert/TW	1192.5	7	0.9366	1.0050	34	7 x 0.1115	0.3346	1.184	B12993-AX-C7T	B12994-AX-C7T	5334.3HTSP	5234.3HTSP	1706AA-10	HCSHT1157	GSA145-306HT	AAR295
Acadia/TW	1192.5	13	0.9366	1.0554	38	7 x 0.1470	0.4409	1.223	B12993-AY-C7T	B12994-AY-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1197	GSA155-311HT	AAR307
Redwood/TW	1233.6	7	0.9689	1.0373	38	7 x 0.1115	0.3346	1.206	B12993-AZ-C7T	B12994-AZ-C7T	5336.3HTSP	5236.3HTSP	1706AA-10	HCSHT1197	GSA145306HT	AAR295
Biscayne/TW	1233.6	13	0.9689	1.0963	38	7 x 0.1522	0.4567	1.246	B12993-BA-C7T	B12994-BA-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1238	GSA155-319HT	AAR307
Saguaro/TW	1272.0	5	0.9990	1.0495	38	7 x 0.0958	0.2874	1.211	B12993-BB-C7T	B12994-BB-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1197	GSA155-311HT	AAR307
Sierra Nevada/TW	1272.0	7	0.9990	1.0674	38	7 x 0.1115	0.3346	1.224	B12993-BC-C7T	B12994-BC-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1197	GSA155-311HT	AAR307
Voyageurs/TW	1272.0	13	0.9990	1.1264	39	7 x 0.1522	0.4567	1.259	B12993-BD-C7T	B12994-BD-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1238	GSA155-319HT	AAR307
Cascades/TW	1351.5	7	1.0615	1.1382	38	7 x 0.1181	0.3543	1.264	B12993-BE-C7T	B12994-BE-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1238	GSA155-326HT	AAR307
Banff/TW	1351.5	10	1.0615	1.1639	42	7 x 0.1365	0.4094	1.278	B12993-BF-C7T	B12994-BF-C7T	5336.3HTSP	5236.3HTSP	1708AA-11	HCSHT1238	GSA155-326HT	AAR322
Elbrus/TW	1351.5	13	1.0615	1.1978	42	7 x 0.1575	0.4724	1.299	B12993-BG-C7T	B12994-BG-C7T	5338.3HTSP	5238.3HTSP	1708AA-11	HCSHT1295	GSA155-333HT	AAR322
Bryce Canyon/TW	1590.0	7	1.2488	1.3342	36	7 x 0.1247	0.3740	1.357	B12993-BH-C7T	B12994-BH-C7T	5338.3HTSP	5238.3HTSP	1708AA-13	HCSHT1350	GSA165-354HT	AAR337
Zion/TW	1590.0	12	1.2488	1.3967	42	7 x 0.1640	0.4921	1.402	B12993-BK-C7T	B12994-BK-C7T	5340.3HTSP	5240.3HTSP	1708AA-13	HCSHT1402	GSA165-359HT	AAR353
Teton/TW	1780.0	5	1.3980	1.4747	38	7 x 0.1181	0.3543	1.422	B12993-BL-C7T	B12994-BL-C7T	5340.3HTSP	5240.3HTSP	1708AA-13	HCSHT1402	GSA165-366HT	AAR353
Everest/TW	1780.0	8	1.3980	1.5084	38	7 x 0.1417	0.4252	1.441	B12993-BM-C7T	B12994-BM-C7T	5342.3HTSP	5242.3HTSP	1708AA-13	HCSHT1402	GSA165-366HT	AAR366

Note
* SP# to be assigned based on project