

SJ-U, TK-U, UD-U Series

Wires specification: ASNE 0270/272/274,
EN 2713-007A/B/C



Retro-Fit Airframe Wires, 200°C, Single and Multi-Core, Screened and Jacketed, Assembly of ASNE 0261 CF-Wires
Retrofit airframe wires and cables for commercial aircraft and helicopters.



Cable characteristics



-55 +200°C



Excellent



FAR25_
ABD0031

Environmental

- Operating temperature: -55°C to 200°C (ambient temperature + current heating)
- Resistant to: Aircraft fluids (oils, hydrocarbons, kerosene, skydrols...), Chemical agents

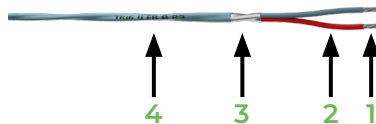
Electrical

Maximum operating voltage :

- 115V (phase to neutral) or 200V (phase to phase) AC Electrical systems of aircraft
- 230/400V AC in pressurized zones with specific installation rules to take account of possible short circuit effects.

Operating frequency: up to 2000Hz

Cable design



- 1- Stranded conductor:
Nickel-coated Copper Alloy (AWG 26 & 24) and Nickel-coated Annealed Copper (AWG 22 to 10)
2. Insulation: Polyimide + PTFE topcoat
3. Helical screen: Nickel-coated annealed Copper
4. Jacket: FEP topcoat, UV-laser sensitive
SJ-U: 1 core TK-U: 2 cores UD-U: 3 cores

Identification

Cores according to corresponding ASNE:

- ASNE E0270-SJ: White (except AWG 22 Light Green)
 - ASNE E0272-TK: 1 Red, 1 Light Blue
 - ASNE E0274-UD: 1 Red, 1 Light Blue, 1 Yellow
- Jacket: White (except for AWG 24, 20, 16: Light Blue)

Marking (example)

TK yy U FR A zz
1 2 3 4 5

e.g. TK 16 U FRA 23

1. Short Designation
2. Gauge
3. Country of Origin
4. Manufacturer (A: Draka)
5. Manufacturing Year

Specifications

Wires Specifications

- AEROSPATIALE:
N°462.012/84
ASNE 0261 (CF) for wires
ASNE 0270 (SJ) for single wire, shielded and jacketed
ASNE 0272 (TK) for 2 wires, shielded and jacketed
ASNE 0274 (UD) for 3 wires, shielded and jacketed
NSA 935000 identification standard, marking
- Analogy of construction in AECMA standard:
Technical specification : EN2235
Cable Specification: EN2713-007
Cores according to: EN 2266-003 Specification

Compliant to ABD0031

Flammability, Smoke and Toxicity requirements and
14 CFR FAR25-1713

Dimensional

Short desi- gna- tion	N°of cores CF-A	Conductors		AWG*	Linear resistance max. at 20°C		Outer diameter insulation				Diameter screen wire		Outer diameter jacket				Weight			
		Stran- ding	Nom. cross section		Ω/km	Ω/ 1000ft	min.		max.		mm	inch	nom.		max.		nom.	max.		
							nb x Ømm	mm²	mm	inch			mm	inch	mm	inch				
SJ 26 U	1	19 x 0.10	0.15	26	160.0	48.77	0.75	0.0295	0.84	0.0331	0.08	0.0031	1.17	0.0461	1.25	0.0492	4.10	2.755	4.30	2.889
SJ 24 U	1	19 x 0.12	0.21	24	114.0	34.75	0.85	0.0335	0.94	0.0370	0.08	0.0031	1.27	0.0500	1.35	0.0531	5.00	3.360	5.30	3.561
SJ 22 U	1	19 x 0.15	0.34	22	60.0	18.29	0.98	0.0386	1.09	0.0429	0.08	0.0031	1.42	0.0559	1.52	0.0600	6.60	4.435	6.90	4.637
SJ 20 U	1	19 x 0.20	0.60	20	33.2	10.12	1.22	0.0480	1.34	0.0528	0.08	0.0031	1.67	0.0657	1.80	0.0709	9.80	6.585	10.20	6.854
SJ 18 U	1	19 x 0.25	0.93	18	21.1	6.43	1.45	0.0571	1.59	0.0626	0.08	0.0031	1.92	0.0756	2.05	0.0807	13.60	9.139	14.10	9.475
SJ 16 U	1	19 x 0.30	1.34	16	14.5	4.42	1.70	0.0669	1.84	0.0724	0.10	0.0039	2.20	0.0866	2.35	0.0925	18.80	12.633	19.70	13.238
SJ 14 U	1	37 x 0.25	1.82	14	10.9	3.32	1.93	0.0760	2.10	0.0827	0.10	0.0039	2.45	0.0965	2.55	0.1004	23.90	16.060	24.80	16.665
SJ 12 U	1	37 x 0.32	2.98	12	6.8	2.07	2.41	0.0949	2.60	0.1024	0.10	0.0039	2.94	0.1157	3.10	0.1220	36.20	24.325	37.50	25.199
TK 26 U	2	19 x 0.10	0.15	26	164.8	48.77	0.75	0.0295	0.84	0.0331	0.08	0.0031	1.95	0.0768	2.10	0.0827	7.20	4.838	7.60	5.107
TK 24 U	2	19 x 0.12	0.21	24	117.50	34.75	0.85	0.0335	0.94	0.0370	0.08	0.0031	2.15	0.0846	2.30	0.0906	8.90	5.981	9.60	6.451
TK 22 U	2	19 x 0.15	0.34	22	61.8	18.29	0.98	0.0386	1.09	0.0429	0.08	0.0031	2.45	0.0965	2.60	0.1024	12.00	8.064	12.70	8.534
TK 20 U	2	19 x 0.20	0.60	20	34.2	10.12	1.22	0.0480	1.34	0.0528	0.10	0.0039	2.98	0.1173	3.15	0.1240	18.90	12.700	19.90	13.372
TK 18 U	2	19 x 0.25	0.93	18	21.7	6.43	1.45	0.0571	1.59	0.0626	0.10	0.0039	3.48	0.1370	3.70	0.1457	26.40	17.740	27.80	18.681
TK 16 U	2	19 x 0.30	1.34	16	15.00	4.42	1.70	0.0669	1.84	0.0724	0.12	0.0047	4.02	0.1583	4.20	0.1654	36.80	24.728	38.50	25.871
TK 14 U	2	37 x 0.25	1.82	14	11.23	3.32	1.93	0.0760	2.10	0.0827	0.12	0.0047	4.25	0.1673	4.75	0.1870	47.40	31.851	50.00	33.598
TK 12 U	2	37 x 0.32	2.98	12	7.00	2.07	2.41	0.0949	2.60	0.1024	0.12	0.0047	5.50	0.2165	5.65	0.2224	71.50	48.046	75.00	50.398
UD 26 U	3	19 x 0.10	0.15	26	164.8	48.77	0.75	0.0295	0.84	0.0331	0.08	0.0031	2.07	0.0815	2.25	0.0886	9.40	6.317	10.50	7.056
UD 24 U	3	19 x 0.12	0.21	24	117.50	34.75	0.85	0.0335	0.94	0.0370	0.10	0.0039	2.31	0.0909	2.50	0.0984	12.80	8.601	14.00	9.408
UD 22 U	3	19 x 0.15	0.34	22	61.8	18.29	0.98	0.0386	1.09	0.0429	0.10	0.0039	2.63	0.1035	2.85	0.1122	17.20	11.558	18.70	12.566
UD 20 U	3	19 x 0.20	0.60	20	34.2	10.12	1.22	0.0480	1.34	0.0528	0.12	0.0047	3.21	0.1264	3.45	0.1358	27.60	18.546	19.20	12.902
UD 18 U	3	19 x 0.25	0.93	18	21.7	6.43	1.45	0.0571	1.59	0.0626	0.12	0.0047	3.75	0.1476	4.00	0.1575	38.70	26.005	40.90	27.484
UD 16 U	3	19 x 0.30	1.34	16	15.00	4.42	1.70	0.0669	1.84	0.0724	0.12	0.0047	4.29	0.1689	4.55	0.1791	52.00	34.942	55.60	37.361
UD 14 U	3	37 x 0.25	1.82	14	11.23	3.32	1.93	0.0760	2.10	0.0827	0.15	0.0059	4.88	0.1921	5.05	0.1988	69.80	46.903	72.60	48.785

*Closest American Wire Gauge



Prysmian câbles et systèmes France
Head Office
23 avenue Aristide Briand - BP 801 - PARON - 89108 SENS Cedex / France
Tel : +33 (0)4 72 46 73 99 - infocables.fr@prysmian.com

Draka Fileca SAS
D 1001 - 60730 Sainte-Geneviève / France
fileca-office@prysmian.com



www.prysmian.com

