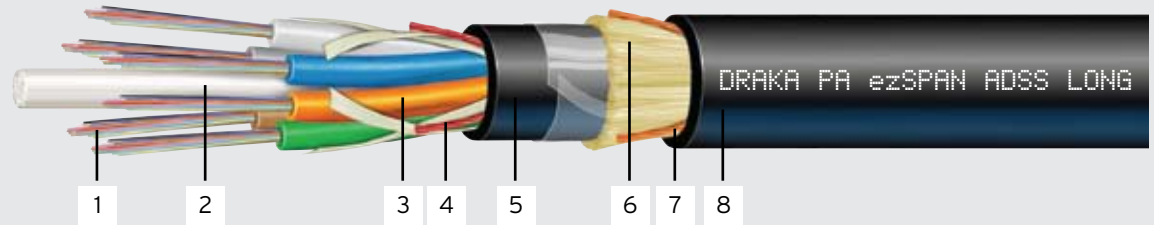




Draka

ezSPAN ADSS™ | Long Span

all-dielectric self-support dual jacket loose tube cable



Application

Draka's ezSPAN™ ADSS | Long Span cables provide reliable self-support performance for up to 2,500 feet (760 meters).

Each ezSPAN™ ADSS cable is custom engineered for optimum placement on utility towers and to operate under full weather load, ensuring safe reliable lifetime performance. Matching pole attachment hardware (dead-ends, suspension clamps) is available.

For installation on high-voltage lines up to 275 kV, an optional track-resistant jacket prevents dry-band arcing damage. Available up to 288 fibers, cables greater than 144 fibers utilize a 24 fiber per tube design to reduce environmental load. 24 fibers per tube design also available for fiber counts of 96-144.

Features

1. FIBER

Multimode or singlemode fibers with an acrylate coating for mechanical protection colored per TIA/EIA 598. Exclusive ColorLock® fiber coating (singlemode) for permanent embedded color & long-term performance.

2. CENTRAL STRENGTH MEMBER

Dielectric material (epoxy/fiberglass rod).

3. BUFFER TUBES

Polymeric insulation filled with a moisture-resistant material to prevent water penetration. Fillers (when needed) are dielectric material.

4. DRY BLOCK TAPE

Swellable tape wrapped around the cable core to prevent water penetration.

5. INNER JACKET

Black polyethylene (PE).

6. STRENGTH MEMBER

Aramid yarn.

7. RIPCORDS

Woven fiber.

8. OUTER JACKET

Black polyethylene (PE). An optional track-resistant jacket prevents dry-band arcing damage for line voltages up to 275 kV.

Ratings

IEEE 1222

ANSI/ICEA

IEC

RUS

Telcordia GR-20



Draka Engineered Specialties

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761 Joseph E. Warner Blvd. | Taunton, MA 02780 | Tel +1-508-822-5444

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For sales and technical information, contact:

Draka Engineered Specialties | 1-800-233-3190 | 1-570-385-4381 | 1-570-385-1092 fax | www.drakausa.com

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| Fiber Count ft (m) | Span | NESC Heavy, 1% Sag | | NESC Medium, 1% Sag | | NESC Light, 1% Sag | |
|-----------------------|------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|
| | | Diameter in (mm) | Weight lb/kft (kg/km) | Diameter in (mm) | Weight lb/kft (kg/km) | Diameter in (mm) | Weight lb/kft (kg/km) |
| 2 to 72 | 200 (61) | 0.53 (13.4) | 97 (144) | 0.52 (13.3) | 95 (142) | 0.52 (13.3) | 95 (142) |
| | 400 (122) | 0.55 (13.9) | 103 (153) | 0.53 (13.5) | 98 (146) | 0.53 (13.4) | 97 (144) |
| | 600 (183) | 0.57 (14.4) | 109 (162) | 0.55 (13.9) | 103 (153) | 0.54 (13.6) | 99 (148) |
| | 800 (244) | 0.60 (15.3) | 122 (182) | 0.56 (14.2) | 106 (158) | 0.55 (13.9) | 103 (153) |
| | 1000 (305) | 0.64 (16.2) | 135 (201) | 0.57 (14.5) | 111 (165) | 0.56 (14.1) | 106 (157) |
| | 1200 (366) | 0.67 (17.0) | 147 (218) | 0.60 (15.3) | 122 (182) | 0.57 (14.4) | 110 (163) |
| | 1600 (488) | | | 0.65 (16.5) | 140 (208) | 0.62 (15.7) | 127 (189) |
| | 2000 (610) | | | 0.69 (17.6) | 157 (234) | 0.65 (16.6) | 141 (210) |
| 74 to 144 | 200 (61) | 0.57 (14.6) | 114 (169) | 0.57 (14.6) | 114 (169) | 0.57 (14.6) | 114 (169) |
| | 400 (122) | 0.59 (15.1) | 120 (179) | 0.58 (14.8) | 116 (172) | 0.58 (14.6) | 114 (170) |
| | 600 (183) | 0.61 (15.5) | 127 (188) | 0.59 (15.1) | 120 (179) | 0.59 (14.9) | 117 (175) |
| | 800 (244) | 0.65 (16.5) | 141 (210) | 0.60 (15.4) | 124 (184) | 0.60 (15.1) | 121 (180) |
| | 1000 (305) | 0.68 (17.3) | 154 (229) | 0.62 (15.8) | 130 (193) | 0.60 (15.4) | 124 (184) |
| | 1200 (366) | 0.71 (17.9) | 164 (244) | 0.65 (16.5) | 141 (210) | 0.62 (15.7) | 129 (192) |
| | 1600 (488) | 0.77 (19.6) | 192 (286) | 0.70 (17.8) | 161 (240) | 0.67 (16.9) | 147 (219) |
| | 2000 (610) | | | 0.74 (18.8) | 179 (267) | 0.71 (17.9) | 164 (244) |
| 146 to 216 | 200 (61) | 0.70 (17.8) | 157 (234) | 0.70 (17.8) | 156 (233) | 0.70 (17.8) | 156 (233) |
| | 400 (122) | 0.72 (18.3) | 165 (245) | 0.71 (18.0) | 160 (238) | 0.70 (17.9) | 159 (236) |
| | 600 (183) | 0.75 (19.0) | 178 (265) | 0.72 (18.3) | 166 (247) | 0.72 (18.2) | 163 (243) |
| | 800 (244) | 0.77 (19.6) | 189 (281) | 0.73 (18.6) | 171 (254) | 0.73 (18.4) | 168 (250) |
| | 1000 (305) | 0.80 (20.4) | 202 (301) | 0.76 (19.3) | 182 (272) | 0.74 (18.7) | 172 (255) |
| | 1200 (366) | 0.83 (21.0) | 215 (319) | 0.78 (19.9) | 193 (288) | 0.76 (19.4) | 184 (274) |
| | 1600 (488) | | | 0.83 (21.0) | 215 (319) | 0.80 (20.4) | 202 (301) |
| | 2000 (610) | | | 0.87 (22.0) | 235 (349) | 0.84 (21.3) | 220 (327) |
| 218 to 288 | 200 (61) | 0.83 (21.1) | 207 (308) | 0.83 (21.0) | 205 (305) | 0.83 (21.0) | 205 (305) |
| | 400 (122) | 0.85 (21.5) | 216 (321) | 0.84 (21.3) | 211 (313) | 0.83 (21.2) | 209 (311) |
| | 600 (183) | 0.87 (22.2) | 229 (340) | 0.85 (21.6) | 218 (324) | 0.84 (21.5) | 215 (319) |
| | 800 (244) | 0.90 (22.9) | 244 (363) | 0.87 (22.2) | 229 (340) | 0.86 (21.7) | 220 (327) |
| | 1000 (305) | 0.93 (23.5) | 257 (382) | 0.89 (22.6) | 238 (354) | 0.88 (22.3) | 232 (345) |
| | 1200 (366) | 0.95 (24.2) | 272 (404) | 0.91 (23.2) | 249 (371) | 0.90 (22.8) | 242 (360) |
| | 1600 (488) | | | 0.96 (24.3) | 274 (408) | 0.94 (23.8) | 264 (393) |
| | 2000 (610) | | | 0.97 (24.7) | 284 (422) | 0.97 (24.7) | 284 (422) |

Cable diameters and weights may vary depending on specific span design requirements.

Information is subject to change without notice. Contact your Draka representative for information about designs with alternative span requirements or cable diameters.

| Fiber Performance Fiber Type | Fiber Grade | Wavelengths nm | Attenuation dB/km | Bandwidth MHz*km | 1 GbE Distance m at 850/1300nm | 10 GbE Distance m at 850nm |
|---------------------------------|-------------|--------------------|----------------------|---------------------|-----------------------------------|-------------------------------|
| Singlemode | | | | | | |
| ES ESMF | E1 | 1310 / 1383 / 1550 | 0.40 / 0.40 / 0.30 | n/a | n/a | n/a |
| | E3 | 1310 / 1383 / 1550 | 0.35 / 0.35 / 0.25 | n/a | n/a | n/a |
| BB BendBright® | E3 | 1310 / 1383 / 1550 | 0.35 / 0.35 / 0.25 | n/a | n/a | n/a |
| LA NZDSF-LA | N1 | 1550 | 0.25 | n/a | n/a | n/a |
| TU TeraLight® | N1 | 1550 | 0.25 | n/a | n/a | n/a |
| Multimode | | | | | | |
| 5S Legacy, 50 µm | M1 | 850 / 1300 | 3.5 / 1.5 | 500 / 500 | 550 / 550 | 82 |
| 6S Legacy, 62.5 µm | M2 | 850 / 1300 | 3.5 / 1.0 | 200 / 500 | 300 / 550 | 33 |
| 5H HiCap, 50 µm | M1 | 850 / 1300 | 3.5 / 1.5 | 600 / 1200 | 750 / 2000 | 110 |
| 6H HiCap, 62.5 µm | M2 | 850 / 1300 | 3.5 / 1.0 | 200 / 600 | 500 / 1000 | 65 |
| 53 MaxCap®, 50 µm, 300m | M1 | 850 / 1300 | 3.5 / 1.5 | 1500 / 500 | 1000 / 550 | 300 |
| 55 MaxCap®, 50 µm, 550m | M1 | 850 / 1300 | 3.5 / 1.5 | 3500 / 500 | 1100 / 550 | 550 |
| 53 MaxCap®, 50 µm, 300m | M1 | 850 / 1300 | 3.5 / 1.5 | 1500 / 500 | 1000 / 550 | 300 |
| 55 MaxCap®, 50 µm, 550m | M1 | 850 / 1300 | 3.5 / 1.5 | 3500 / 500 | 1100 / 550 | 550 |

Mechanical Specifications

| | |
|------------------------------|---|
| Minimum Bend Radius | Temperature Range |
| with load 20x cable diameter | Shipping and Storage -40°F to +167°F (-40°C to +75°C) |
| no load 10x cable diameter | Installation -22°F to +140°F (-30°C to +60°C) |
| | Operation -40°F to +158°F (-40°C to +70°C) |