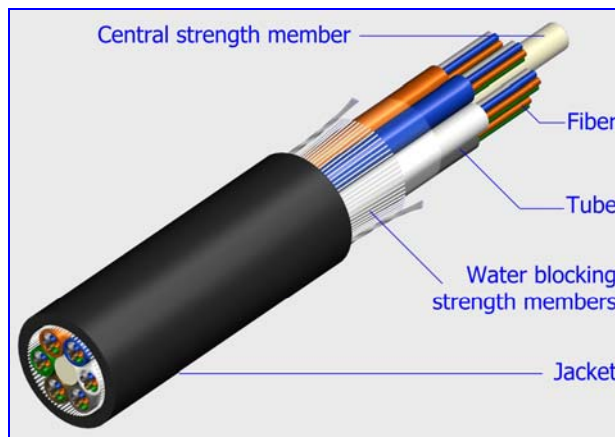


ADS Series All Dielectric Self-Supporting Fiberoptic Cable



APPLICATIONS

The "All Dielectric Self-Supporting (ADSS)" cables are designed for aerial self-supporting applications at short, medium and long span distances.

Teldor ADSS cables offer a rapid and economical means for deploying optical fiber cables along existing aerial rights-of-way. They are being deployed by cable television operators, telephone companies, municipalities and emerging network operators, in addition to electric power utilities.

CABLE DESCRIPTION

The ADSS cable consists of a number of tubes/elements according to the specified number of fibers. The elements are usually fiber-containing tubes; however fillers may be used to preserve the cable geometry.

Two to twelve color-coded fibers are loosely laid in each tube which is filled with a water-blocking gel. The tubes are stranded around a dielectric central strength member and bound in a jacket.

A water-swelling tape is helically wrapped around the cable core. Aramid yarn strength members are helically laid to supply peripheral strengthening of the cable. The outer jacket is tightly bound over the aramid yarn layer. For long span applications a double jacket design can be considered. A ripcord is located under each jacket layer to facilitate its removal.

For up to 30 fiber cables, the "ADSB" design is applicable, for 32-144 fibers the "ADSC" design is applicable. Dry cable designs, ballistic protection and other cable designs are available upon request.

STANDARDS

- Cables are designed for aerial installation according to IEEE-P1222

- Cables tested according to TIA/EIA-455 and IEC-60794-1-2. For details see Test Methods Table.
- Cables meet or exceed Telcordia (Bellcore) requirements for outside plant cables (GR-20) when the appropriate options are chosen.

MECHANICAL PROPERTIES

Typical properties are given in the Mechanical Properties Table. Actual properties depend on the cable construction.

The tensile load and sag of the cables at different wind conditions is given in the attached Table for several key cable configurations.

OPTICAL PROPERTIES

See the Optical Properties Table.

MATERIALS

See information about the materials used in the Teldor Fiberoptic Cables.

MARKING

Cables are marked as follows

Teldor - Fiberoptic Cable - Cable Code - RoHS - Length in Meters
or per customer request.

CABLE DIMENSIONS AND WEIGHTS

See list of most frequently ordered cables next page.

ORDERING

You can find the desired cable in the cable list next page or compose your own cable from the Cable Code Definition and Selection Guide.

Standard cable lengths vary with cable diameter. Other constructions, color codes and materials may be available. Please contact the Teldor Marketing Department.

ADS Series Technical Tables

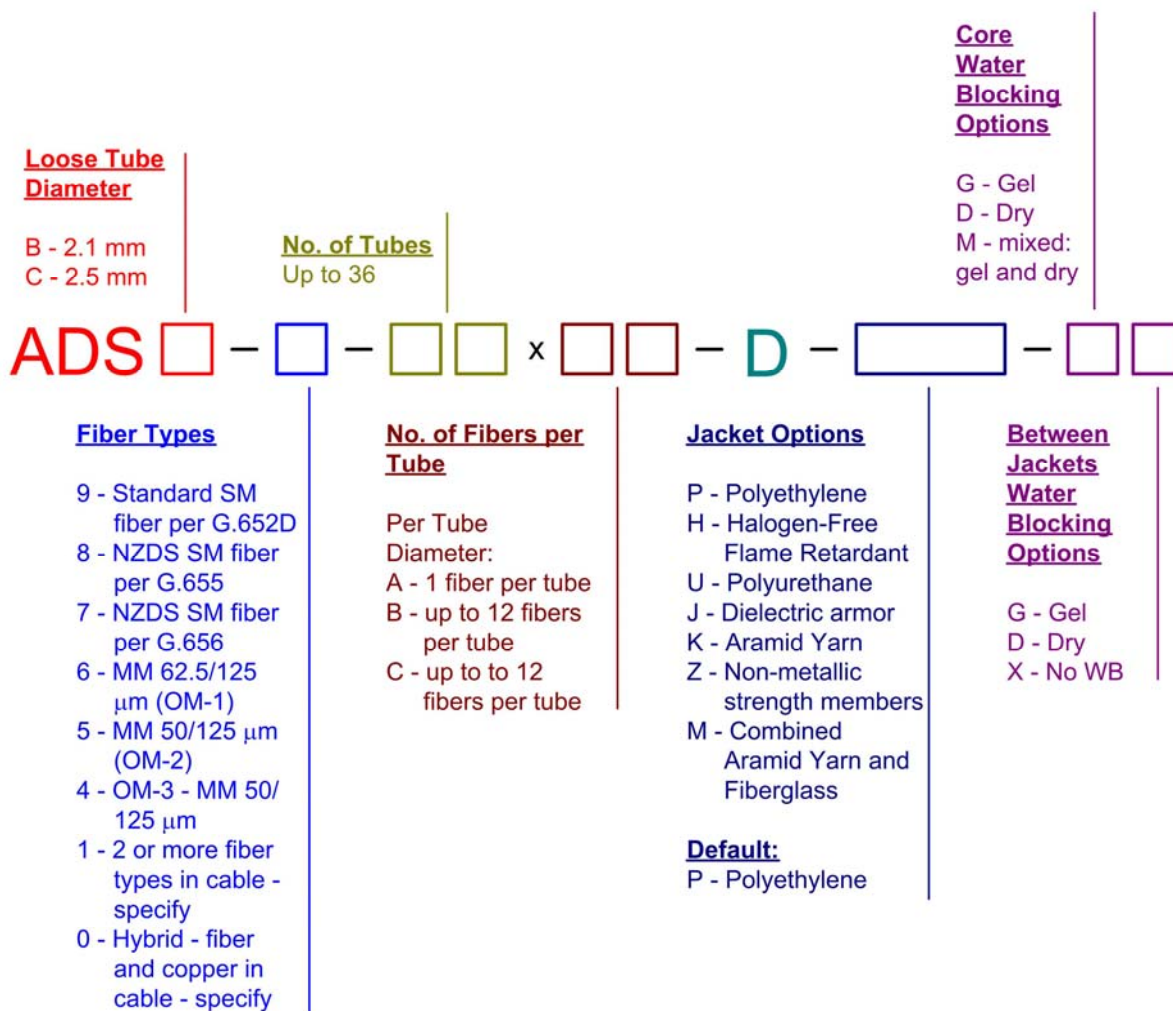
ADS Series Typical Mechanical Properties

Max. Operating Load	Per Installation Table for ADS Cables (see below)
Max. Compressive Load	4000 N
Repeated Impact	4.4 N.m (J)
Minimum Bending Radius for Installation	20 times the cable O.D.
Minimum Long Term Bending Radius	10 times the cable O.D.
Twist (Torsion) — Length	180°x10 times , 125 times the cable O.D.
Cyclic Flexing	100 cycles
Operating Temperature Range	-40°C to +70°C (With PE jacket)
Storage Temperature Range	-50°C to +70°C (With PE jacket)

Most Frequently Ordered ADS Cables Part Numbers, Codes, Dimensions and Weights

Part Number	Cable code	Dimensions (mm)	Weight (kg/km)
44122D0136	ADSB-9-02X06-D-PKP-GX	13.5	135
44123D283	ADSB-9-03X04-D-PJP-DD	13.0	245
44484D7	ADSC-9-04x12-D-KP-D	13.0	115
44484D76	ADSC-9-04x12-D-PKP-D	14.5	140

ADS Series Cable Code Definition and Selection Guide



Remarks

- The default jacket colors are:

	PE	HFFR
SM Fibers	Black	Yellow
MM Fibers	Black	Orange

Other jacket colors available please specify.

ADS Series Installation Table for ADSS Cables ⁽¹⁾

Number of Elements	Cable Weight (kg/km)	Cable Diameter (mm)	SPAN (m)	Installation Tension (N) ⁽²⁾	Wind Conditions ⁽³⁾					
					Light		Medium		Heavy	
					Sag (m)	Tension (N)	Sag (m)	Tension (N)	Sag (m)	Tension (N)
ADS Series										
2-30 ADSB, 5 Elements	105	11.5	30	400	0.16	1230	0.48	1600	0.66	2370
			40	525	0.22	1540	0.69	1970	0.95	2940
			60	800	0.37	2100	1.16	2650	1.6	3900
			70	860	0.46	2300	1.42	2930	2.27	4320
			80	985	0.54	2560	1.68	3240	2.33	4755
			100	1255	0.71	3040	2.25	3820		
			120	1520	0.89	3500	2.80	4380		
			135	1785	1.01	3870	3.23	4810		
		150	1920	1.16	4170	3.70	5180			
32-60 ADSC, 5 Elements	120	12.7	30	425	0.16	1310	0.49	1650	0.67	2430
			40	570	0.23	1630	0.71	2030	0.96	3000
			50	715	0.30	1940	0.94	2400	1.28	3530
			60	845	0.38	2220	1.17	2750	1.62	4020
			70	990	0.45	2520	1.43	3080	1.97	4500
			80	1120	0.54	2780	1.69	3390	2.35	4990
			100	1500	0.70	3340	2.22	4050		
			120	1780	0.88	3840	2.79	4628		
			135	1936	1.02	4150	3.26	5020		
		150	2200	1.16	4530					
62-72 ADSC, 6 Elements	125	12.7	30	443	0.16	1320	0.50	1640	0.67	2500
			40	580	0.24	1640	0.71	2040	0.97	3000
			50	795	0.30	2000	0.92	2470	1.26	3590
			60	950	0.38	2300	1.16	2800	1.60	4080
			70	1085	0.46	2570	1.42	3130	1.96	4540
			80	1240	0.54	2850	1.68	3450	2.32	5000
			100	1530	0.72	3350	2.22	4070		
			120	180	0.90	3830	2.80	4650		
			135	2080	1.04	4220	3.23	5100		
		150	2340	1.18	4600					
74-96 ADSC, 8 Elements	180	14.2	30	580	0.17	1500	0.5	1800	0.67	2590
			40	820	0.24	1890	0.7	2260	0.96	3220
			50	1000	0.32	2220	0.94	2630	1.28	3770
			60	1220	0.4	2600	1.17	3060	1.61	4330
			70	1400	0.49	2890	1.42	3415	1.97	4820
			80	1640	0.57	3240	1.67	3800		
			100	1960	0.76	3790	2.23	4450		
			120	2360	0.94	4390				
			135	2640	1.09	4800				
98-126 ADSC ,10 Elements	220	16	30	834	0.19	1730	0.49	2015	0.66	2810
			40	1100	0.27	2150	0.70	2500	0.94	3500
			50	1290	0.35	2500	0.93	2920	1.27	4070
			60	1590	0.44	2910	1.17	3360	1.61	4660
			70	1860	0.53	3290	1.40	3800	1.94	5220
			80	2150	0.62	3680	1.66	4215		
			100	2690	0.81	4400	2.17	5030		
			120	3250	1.00	5114				
122-144 ADSC, 12 Elements	280	17.2	30	1030	0.21	1910	0.49	2200	0.66	3030
			40	1340	0.29	2380	0.71	2710	0.95	3720
			50	1720	0.37	2900	0.91	3280	1.25	4400
			60	2030	0.47	3300	1.15	3740	1.58	5030
			70	2440	0.56	3800	1.38	4270		
			80	2750	0.65	4215	1.62	4725		
			100	3470	0.85	5070				

1. Values shown are for "KP" jacket design. Other cables available upon request,

2. 1% Sag at installation

3.

NESC	Light	Medium	Heavy
Ice (mm)	0	6.5	12.5
Wind (km/hr)	94.4	62.8	62.8
Extra (N/m)	0.7	2.5	4.4