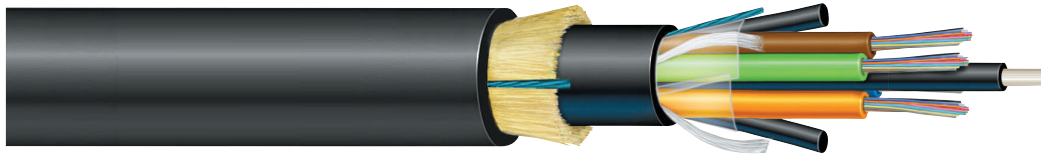


DXPSS Short Span Self-Supporting Cable

chemical resistant / all-dielectric tray rated / loose tube construction / 2 to 144 fibers
singlemode or multimode / OFN



Applications

These are multiple fiber loose tube cables designed for high-speed interbuilding communication systems including long haul networking, interbuilding trunking and local loop applications, self supporting up to 1400 ft (427 m) depending on fiber count and loading conditions. A double jacket of heavy duty CPE resists attack by chemicals and petroleum derivatives. Loose tube design offers optimum fiber performance. These cables comply with IEEE P1222.

Fully flooded cables are available. All DXPSS cables are Gigabit Ethernet IEEE 802.3z compliant. MaxCap multimode fiber for 10 Gb networks is available.

Ratings

- OFN rated for indoor/outdoor
For sag and tension information, refer to the page at back of this section: DXPSS SHORT SPAN SELF-SUPPORTING CABLE CUST REF FO-100

Construction

FIBER: Multimode or singlemode fibers with an acrylate coating for mechanical protection colored per TIA/EIA 598.

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

CENTRAL STRENGTH MEMBER: Dielectric material (epoxy/fiberglass rod).

DRY BLOCK TAPE: Swellable tape wrapped around the cable core to prevent water penetration.

INNER JACKET: Black heavy duty CPE.

OUTER STRENGTH MEMBER: Multiple layers of high-strength aramid yarn.

OUTER JACKET: Black heavy duty CPE.

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DXPSS Short Span Self-Supporting Cable

sag and tension data per NESC loading conditions

NESC Loading Conditions								
Fiber Counts	Span (feet)	Installation Tension (lbs) @ 1% Sag	Light Sag (%)	Light Tension (lbs)	Medium Sag (%)	Medium Tension (lbs)	Heavy Sag (%)	Heavy Tension (lbs)
2-30	100	156	0.53	329	1.60	413	2.24	583
2-30	200	312	0.61	570	1.88	702	2.70	970
2-30	300	469	0.66	788	2.07	958	3.00	1307
2-30	400	625	0.70	993	2.21	1196	3.24	1616
2-30	500	781	0.73	1189	2.32	1422	3.43	1906
2-30	600	937	0.76	1380	2.42	1639	3.59	2183
2-30	700	1094	0.78	1566	2.50	1850	3.74	2449
2-30	800	1250	0.80	1749	2.57	2055		
2-30	900	1406	0.81	1929	2.63	2257		
2-30	1000	1562	0.83	2107	2.69	2455		
36	100	174	0.56	346	1.62	428	2.25	599
36	200	348	0.64	601	1.90	730	2.70	999
36	300	521	0.69	833	2.08	999	3.00	1349
36	400	695	0.73	1053	2.21	1249	3.23	1670
36	500	869	0.76	1264	2.32	1489	3.42	1972
36	600	1043	0.79	1469	2.41	1719	3.58	2260
36	700	1216	0.81	1671	2.49	1943	3.72	2500
36	800	1390	0.82	1868	2.56	2162		
36	900	1564	0.84	2064	2.62	2377		
48 & 60	100	183	0.56	357	1.63	437	2.26	609
48 & 60	200	365	0.65	621	1.91	746	2.71	1011
48 & 60	300	548	0.70	862	2.08	1022	3.01	1374
48 & 60	400	730	0.74	1090	2.22	1281	3.24	1702
48 & 60	500	913	0.77	1309	2.33	1527	3.42	2011
48 & 60	600	1095	0.79	1523	2.41	1765	3.58	2307
48 & 60	700	1278	0.81	1732	2.49	1996		
48 & 60	800	1460	0.83	1938	2.62	2222		
48 & 60	900	1643	0.85	2142	2.61	2445		
72	100	204	0.59	378	1.64	455	2.27	629
72	200	408	0.68	661	1.92	782	2.72	1053
72	300	612	0.73	920	2.09	1074	3.01	1426
72	400	815	0.77	1166	2.22	1349	3.23	1770
72	500	1019	0.80	1404	2.32	1612	3.41	2095
72	600	1223	0.82	1636	2.41	1866	3.57	2406
72	700	1427	0.84	1864	2.48	2115		
72	800	1631	0.86	2089	2.54	2358		

NESC Loading Conditions								
Fiber Counts	Span (feet)	Installation Tension (lbs) @ 1% Sag	Light Sag (%)	Light Tension (lbs)	Medium Sag (%)	Medium Tension (lbs)	Heavy Sag (%)	Heavy Tension (lbs)
84	100	241	0.64	413	1.67	487	2.29	662
84	200	482	0.72	728	1.93	842	2.72	1115
84	300	724	0.67	1018	2.09	1164	3.00	1515
84	400	965	0.81	1296	2.21	1468	3.21	1886
84	500	1206	0.84	1567	2.31	1761	3.38	2239
84	600	1447	0.86	1832	2.45	2325		
84	700	1689	0.88	2094	2.50	1850	3.74	2449
96	100	284	0.68	451	1.68	523	2.30	699
96	200	568	0.77	802	1.94	912	2.71	1183
96	300	852	0.82	1129	2.09	1267	2.98	1615
96	400	1136	0.85	1445	2.20	1606	3.18	2018
96	500	1420	0.88	1753	2.28	1934	3.34	2403
96	600	1705	0.90	2057	2.35	2254		
108	100	312	0.71	477	1.69	547	2.30	723
108	200	625	0.79	852	1.94	958	2.71	1229
108	300	937	0.84	1204	2.08	1337	2.97	1683
108	400	1250	0.87	1545	2.18	1699	3.16	2108
108	500	1562	0.89	1879	2.26	2051	3.31	2500
108	600	1875	0.91	2209	2.32	2396		
120	100	362	0.74	521	1.70	589	2.30	765
120	200	725	0.83	939	1.93	1041	2.69	1310
120	300	1087	0.87	1336	2.06	1461	2.94	1801
120	400	1450	0.90	1722	2.15	1866	3.11	2265
120	500	1812	0.92	2102	2.22	2261		
132	100	395	0.77	550	1.71	617	2.30	793
132	200	790	0.85	996	1.92	1095	2.68	1362
132	300	1185	0.89	1422	2.04	1543	2.91	1879
132	400	1580	0.92	1838	2.13	1976	3.08	2369
132	500	1974	0.94	2249	2.19	2401		
144	100	441	0.80	584	1.72	652	2.29	825
144	200	883	0.88	1069	1.90	1167	2.64	1428
144	300	1324	0.92	1535	2.01	1654	2.86	1980
144	400	1765	0.94	1993	2.08	2127	3.01	2500

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sag and tension data per NESC loading conditions

NESC Loading Conditions								
Fiber Counts	Span (feet)	Installation Tension (lbs) @ 1% Sag	Light Sag (%)	Light Tension (lbs)	Medium Sag (%)	Medium Tension (lbs)	Heavy Sag (%)	Heavy Tension (lbs)
2-30	100	122	0.43	315	1.57	395	2.25	565
2-30	200	245	0.51	538	1.87	664	2.72	935
2-30	300	367	0.56	736	2.06	900	3.04	1254
2-30	400	490	0.59	920	2.22	1118	3.29	1544
2-30	500	612	0.62	1095	2.34	1323	3.50	1816
2-30	600	734	0.65	1364	2.45	1519	3.68	2074
2-30	700	857	0.67	1427	2.54	1708	3.83	2321
2-30	800	979	0.69	1587	2.62	1892	3.97	2559
2-30	900	1102	0.70	1743	2.69	2071	4.10	2790
2-30	1000	1224	0.72	1897	2.76	2246	4.21	3000
2-30	1100	1346	0.73	2048	2.82	2418		
2-30	1200	1469	0.75	2196	2.88	2585		
2-30	1300	1591	0.76	2343	2.93	2752		
2-30	1400	1714	0.77	2489	2.97	2916		
36	100	138	0.46	330	1.59	408	2.26	580
36	200	290	0.55	582	1.90	702	2.74	975
36	300	435	0.60	799	2.09	955	3.05	1311
36	400	580	0.64	1002	2.24	1189	3.30	1618
36	500	724	0.67	1196	2.36	1411	3.50	1905
36	600	869	0.70	1383	2.46	1623	3.67	2179
36	700	1014	0.72	1565	2.54	1788	3.82	2400
36	800	1100	0.72	1689	2.62	1982	3.96	2648
36	900	1238	0.74	1857	2.69	2172	4.08	2890
36	1000	1375	0.75	2023	2.75	2359		
36	1100	1513	0.77	2184	2.81	2539		
36	1200	1651	0.78	2346	2.86	2719		
36	1300	1788	0.79	2506	2.91	2897		
48 & 60	100	145	0.47	339	1.60	415	2.27	588
48 & 60	200	290	0.55	582	1.90	702	2.71	975
48 & 60	300	435	0.60	799	2.09	955	3.05	1311
48 & 60	400	580	0.64	1002	2.24	1189	3.30	1618
48 & 60	500	724	0.67	1196	2.36	1411	3.50	1905
48 & 60	600	869	0.70	1383	2.46	1623	3.67	2179
48 & 60	700	1014	0.72	1565	2.54	1829	3.82	2442
48 & 60	800	1159	0.73	1744	2.62	2030	3.96	2696
48 & 60	900	1304	0.75	1919	2.69	2225	4.08	2943
48 & 60	1000	1449	0.77	2091	2.75	2417		
48 & 60	1100	1594	0.78	2260	2.81	2604		
48 & 60	1200	1739	0.79	2428	2.86	2790		
48 & 60	1300	1884	0.80	2595	2.90	2974		

NESC Loading Conditions								
Fiber Counts	Span (feet)	Installation Tension (lbs) @ 1% Sag	Light Sag (%)	Light Tension (lbs)	Medium Sag (%)	Medium Tension (lbs)	Heavy Sag (%)	Heavy Tension (lbs)
72	100	161	0.49	358	1.62	431	2.29	605
72	200	322	0.5	616	1.91	731	2.75	1006
72	300	484	0.63	848	2.10	997	3.06	1355
72	400	645	0.67	1066	2.25	1244	3.31	1674
72	500	806	0.69	1274	2.37	1478	3.50	1975
72	600	967	0.72	1476	2.46	1704	3.67	2261
72	700	1129	0.74	1673	2.55	1922	3.82	2536
72	800	1290	0.76	1865	2.62	2135	3.95	2802
72	900	1451	0.77	2055	2.69	2344		
72	1000	1612	0.79	2239	2.75	2547		
72	1100	1773	0.80	2424	2.80	2748		
72	1200	1935	0.82	2607	2.85	2947		
84	100	190	0.53	387	1.65	457	2.30	633
84	200	380	0.62	671	1.94	780	2.77	1057
84	300	570	0.67	927	2.12	1067	3.07	1427
84	400	759	0.71	1169	2.26	1366	3.31	1767
84	500	949	0.74	1402	2.37	1592	3.49	2089
84	600	1139	0.76	1628	2.46	1840	3.66	2396
84	700	1329	0.78	1849	2.54	2081	3.80	2692
84	800	1519	0.80	2067	2.60	2316	3.92	2979
84	900	1709	0.82	2282	2.67	2547		
84	1000	1899	0.83	2494	2.72	2775		
84	1100	2089	0.84	2704	2.77	3000		

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NESC Loading Conditions								
Fiber Counts	Span (feet)	Installation Tension (lbs) @ 1% Sag	Light Sag (%)	Light Tension (lbs)	Medium Sag (%)	Medium Tension (lbs)	Heavy Sag (%)	Heavy Tension (lbs)
96	100	223	0.58	419	1.67	486	2.32	663
96	200	445	0.66	730	1.95	833	2.77	1112
96	300	668	0.71	1013	2.13	1146	3.07	1506
96	400	890	0.75	1283	2.26	1440	3.29	1871
96	500	1113	0.78	1543	2.36	1722	3.47	2216
96	600	1335	0.80	1798	2.44	1995	3.63	2547
96	700	1558	0.82	2047	2.51	2262	3.76	2867
96	800	1780	0.84	2288	2.57	2520		
96	900	2003	0.86	2531	2.63	2778		
96	1000	2225	0.87	2772	2.67	3000		
108	100	245	0.60	440	1.69	505	2.33	684
108	200	490	0.69	770	1.96	870	2.77	1149
108	300	735	0.74	1073	2.13	1201	3.06	1561
108	400	980	0.78	1361	2.25	1513	3.28	1942
108	500	1225	0.80	1642	2.35	1813	3.46	2304
108	600	1470	0.83	1916	2.43	2104	3.60	2652
108	700	1715	0.85	2185	2.49	2390	3.73	2989
108	800	1960	0.86	2449	2.55	2668		
108	900	2205	0.88	2712	2.60	2945		
120	100	282	0.64	475	1.70	538	2.34	718
120	200	565	0.73	837	1.97	932	2.77	1212
120	300	847	0.78	1172	2.12	1293	3.05	1651
120	400	1130	0.81	1493	2.24	1635	3.26	2061
120	500	1412	0.84	1806	2.33	1966	3.42	2451
120	600	1695	0.86	2113	2.40	2289	3.56	2828
120	700	1977	0.88	2415	2.46	2604		
120	800	2225	0.89	2715	2.51	2916		

NESC Loading Conditions								
Fiber Counts	Span (feet)	Installation Tension (lbs) @ 1% Sag	Light Sag (%)	Light Tension (lbs)	Medium Sag (%)	Medium Tension (lbs)	Heavy Sag (%)	Heavy Tension (lbs)
132	100	299	0.65	493	1.71	553	2.35	735
132	200	598	0.74	870	1.97	962	2.78	1243
132	300	896	0.79	1220	2.13	1337	3.05	1696
132	400	1195	0.82	1557	2.24	1693	3.26	2119
132	500	1494	0.85	1885	2.32	2038	3.42	2523
132	600	1793	0.87	2208	2.40	2375	3.55	2913
132	700	2091	0.88	2527	2.45	2706		
132	800	2390	0.90	2843	2.50	3000		
144	100	341	0.70	521	1.72	584	2.33	763
144	200	682	0.79	930	1.96	1024	2.78	1300
144	300	1023	0.83	1314	2.10	1430	3.00	1782
144	400	1365	0.87	1685	2.20	1820	3.19	2234
144	500	1706	0.89	2049	2.27	2200	3.34	2669
144	600	2047	0.91	2405	2.33	2569		
144	700	2388	0.92	2761	2.39	2937		
156-216	100	379	0.71	569	1.73	624	2.36	808
156-216	200	758	0.79	1017	1.97	1100	2.77	1380
156-216	300	1136	0.84	1438	2.11	1541	3.02	1896
156-216	400	1515	0.87	1847	2.20	1966	3.21	2383
156-216	500	1894	0.89	2249	2.27	2381	3.35	2851
156-216	600	2273	0.91	2641	2.33	2785		
288	100	379	0.66	605	1.63	665	2.19	870
288	200	758	0.75	1071	1.86	1163	2.58	1478
288	300	1136	0.80	1506	2.00	1622	2.83	2022
288	400	1515	0.84	1926	2.10	2060	3.01	2533
288	500	1894	0.86	2336	2.17	2486	3.15	3000
288	600	2273	0.88	2740	2.23	2904		

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