

ADSS MLT Fibre Optic Cable (2-144 Fibres)

Optronics All Dielectric Self-Supporting Multi Loose Tube (MLT) cables are constructed of fibres inside gel filled central loose tubes, wrapped around an FRP central strength member. This is encased in a PE inner jacket, aramid yarns and a PE outer jacket.

Features/Benefits

- > **Lightweight, all-dielectric construction is ideal for use near electrical power**
- > **lines and in areas of frequent lightning strikes**
- > **Round construction is ideal for minimum wind drag and ice build-up**
- > **High tensile strength**
- > **Wide operating temperature range: -40°C - +70°C**

Applications

- > **Suitable for installation on poles and on the power distribution network**

Technical Specifications

DESCRIPTION			F3	F6	F8	F10	F12	F16	F18	F21	F24	F24	F31
Span	m		100	200	300	400	500	600	700	800	900	1000	1200
Outer Diameter	mm		11.6	12.0	12.3	12.5	12.8	13.8	14.2	14.5	14.8	15.1	15.5
Weight	PE Jacket	kg/km	124.2	131.1	136.3	141.4	146.5	165.9	172.6	179.2	185.8	192.3	202.1
Cross Sectional Area	mm ²		105.68	112.70	117.90	123.07	128.19	150.21	157.40	164.55	171.65	178.70	189.20
Area Of Strength Member	mm ²		5.67	10.20	13.62	17.02	20.43	26.10	30.64	35.18	39.72	44.26	51.07
RTS	kN		8.50	15.30	20.40	25.50	30.60	39.10	45.90	52.70	59.50	66.30	76.50
MOTS	kN		3.40	6.12	8.16	10.20	12.24	15.64	18.36	21.08	23.80	26.52	30.60
EDS	kN		2.13	3.83	5.10	6.38	7.65	9.78	11.48	13.18	14.88	16.58	19.13
Ultimate Exceptional Stress	kN		5.10	9.18	12.24	15.30	18.36	23.46	27.54	31.62	35.70	39.78	45.90
Modulus	KN/ mm		8.44	12.52	15.27	17.79	20.11	21.71	24.02	26.13	28.07	29.86	32.31
Thermal Expansion Coefficient	10 ⁶ /°C		9.32	5.28	3.78	2.80	2.12	1.42	0.99	0.67	0.41	0.20	-0.05
Crush Strength	Operation	N/10cm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Installation	N/10cm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Safety Factor			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Min. Bend Radius	Operation	mm	174	180	185	188	192	207	213	218	222	227	233
	Installation	mm	290	300	308	313	320	345	355	363	370	378	388
Temperature	Installation	°C	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Sag (5mm inc load average 20°C)	PE Jacket	%	0.72	0.84	1.06	1.28	1.47	1.57	1.63	1.71	1.78	1.87	2.18

Ordering information available upon request.

