



LOOSE TUBE AERIAL AND DUCT CABLES

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General Purpose Loose Tube Cable

Loose tube cables are generally recommended for outdoor applications or for premise uses where there may be significant shifts in ambient temperature.

The cable construction comprises a dielectric central strength member around which colour coded buffer tubes, each 2.8mm diameter are cabled. Each buffer tube can contain up to 12 colour coded optical fibres, thus providing circuit identification.

The construction allows the tube material to expand and contract due to temperature changes without damaging the fibre. The tubes are filled with a gel material which provides moisture protection.

Loose tube cables can be used in underground ducts and aerial lashings and are of an all-dielectric construction. Up to 12 optical fibres can be assembled in each tube and a total of 264 fibres in a cable.

Series 740L cables can be supplied in composite form having a mixture of fibre types, such as singlemode and multimode. In this case, fibres of a common type, or size, are grouped together in one or more common tubes.

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Fibre Count	Cable OD	Cable Weight
	mm	kg per km
12	11.7	71.5
24	11.7	77.5
36	11.7	83.4
48	11.7	89.4
60	11.7	95.4
72	12.5	113.2
84	14	138.6
96	14.8	157.9
108	15.7	178.8
120	16.5	204.1
132	17.3	228
144	18.3	254.8
168	18.7	213.1
192	18.7	225
216	18.7	236.9
240	19.6	260.8
264	20.4	292

Fibre Count	Maximum Tensile Load	
	Install Newtons	Operation Newtons
12	2670	890
24	2670	890
36	2670	890
48	2670	890
60	2670	890
72	2670	890
84	2670	890
96	2670	890
108	2670	890
120	2670	890
132	2670	890
144	2670	890
168	2670	890
192	2670	890
216	2670	890
240	2670	890
264	2670	890





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Product Highlights

- RoHS compliant
- Approved for use in RUS applications
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices
- Cable jacket provides UV radiation protection
- Gel filled loose tube provides water and moisture protection

Values given in the above table are for cable made with of 12 fibres per tube, for example, 48 fibres made up of 4 tubes with 12 fibres per tube. Cables can be supplied with 2, 4, 6, or 8 fibres per tube on a custom build.

This cable design allows a maximum of 264 fibres in one cable.

Minimum Bend radius

- 10 times cable outside diameter with no load
- 20 times cable outside diameter with full load

How to order cable:

Cable Series + Number of Fibres + Fibre Size

e.g. 740L-04-50 is a 4 core 50/125µm duct cable

