

## Multi Loose Tube Double Jacket Cable (24-144 Fibres)

The multi loose tube cable construction consists of up to 12 elements and a maximum of 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non-metallic strength members with ripcord and PE inner jacket, corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) final jacket with ripcord.

### Features/Benefits

- > Choice of fibre type
- > Colour coded fibres
- > High water resistance

### Applications

- > Suitable for external applications in ducts or for direct burial

### Technical Specifications

DESCRIPTION		24 to 60-CORE	72-CORE	96-CORE	120-CORE	144-CORE
Outer Diameter	mm	14.0 ±0.5	14.6 ±0.5	16.1 ±0.5	17.6 ±0.5	19.1 ±0.5
Weight	kg/km	210	219	257	298	343
Max. Load (installation)	N	1500	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600	600
Min. Bend Radius (installation)	mm	280	290	320	350	380
Min. Bend Radius (installed)	mm	140	145	160	175	190
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	4000	4000	4000	4000	4000

### Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1LTDST***PBK-C/Z
OM2	OM2LTDST***PBK-C/Z
OM3	OM3LTDST***PBK-C/Z
OM4	OM4LTDST***PBK-C/Z
OS1/OS2	OS1LTDST***PBK-C/Z

Where \*\* is the fibre count between 24 & 144



## Multi Loose Tube Double Jacket Cable (PKP)

A 5-12 element dry core OM1, OM2, OM3, OM4 multimode or OS1 (ITU-T G.652D) singlemode 250 multi loose tube PKP cables.

The 5-12 element multi loose tube cable construction consists of up to 144 fibres, 250µm optical fibres in 12 fibre gel filled loose tubes and fillers where appropriate, SZ stranded around a Fibre Reinforced Plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Polyethylene (PE) inner jacket with ripcord, helically applied aramid non metallic strength members. Polyethylene (PE) inner jacket with ripcord, helically applied aramid non metallic strength members with ripcord and black High Density Polyethylene (HDPE) final jacket.

### Applications

- > Suitable for external duct applications where enhanced crush and impact is required
- > Suitable for applications where environmental resistance is required

### Features

- > Choice of fibre types
- > Colour coded fibres
- > Compact 250 µm loose tube construction
- > Double PE jackets for environmental protection and water permeation resistance

### Technical Specification

DESCRIPTION		4-CORE PE	8-CORE PE	12-CORE PE	16-CORE PE	24-CORE PE	48-CORE PE	72-CORE PE	96-CORE PE	144-CORE PE
Outer Diameter	mm	12.5 ±0.5	12.5 ±0.5	12.5 ±0.5	12.5 ±0.5	12.5 ±0.5	12.5 ±0.5	13.1 ±0.5	14.6 ±0.5	17.61 ±0.5
Weight	kg/km	110	110	110	110	110	110	122	150	216
Max. Load (Short Term)	N	2700	2700	2700	2700	2700	2700	2800	2900	3100
Max. Load (Long Term)	N	1300	1300	1300	1300	1300	1300	1500	1500	1600
Min. Bend Radius (Loaded)	mm	20D	20D	20D	20D	20D	20D	20D	20D	20D
Min. Bend Radius (Installed)	mm	10D	10D	10D	10D	10D	10D	10D	10D	10D
Storage Temp.	°C	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Installation Temp.	°C	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Operating Temp.	°C	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70
Max Crush Resistance	N/100mm	3000	3000	3000	3000	3000	3000	3000	3000	3000
Number of Elements		5	5	5	5	5	5	6	8	12

### Ordering Information

DESCRIPTION	OM1 62.5/125µm MULTIMODE	OM2 50/125µm MULTIMODE	OM3 50/125µm MULTIMODE	OM4 50/125µm MULTIMODE	OS1/OS2 9/125µm SINGLEMODE
	Part NO.	Part NO.	Part NO.	Part NO.	Part NO.
4-Core	OM1MLT04PKPBK/Z	OM2MLT04PKPBK/Z	OM3MLT04PKPBK/Z	OM4MLT04PKPBK/Z	OS1MLT04PKPBK/Z
8-Core	OM1MLT08PKPBK/Z	OM2MLT08PKPBK/Z	OM3MLT08PKPBK/Z	OM4MLT08PKPBK/Z	OS1MLT08PKPBK/Z
12-Core	OM1MLT12PKPBK/Z	OM2MLT12PKPBK/Z	OM3MLT12PKPBK/Z	OM4MLT12PKPBK/Z	OS1MLT12PKPBK/Z
16-Core	OM1MLT16PKPBK/Z	OM2MLT16PKPBK/Z	OM3MLT16PKPBK/Z	OM4MLT16PKPBK/Z	OS1MLT16PKPBK/Z
24-Core	OM1MLT24PKPBK/Z	OM2MLT24PKPBK/Z	OM3MLT24PKPBK/Z	OM4MLT24PKPBK/Z	OS1MLT24PKPBK/Z
48-Core	OM1MLT48PKPBK/Z	OM2MLT48PKPBK/Z	OM3MLT48PKPBK/Z	OM4MLT48PKPBK/Z	OS1MLT48PKPBK/Z
72-Core	OM1MLT72PKPBK/Z	OM2MLT72PKPBK/Z	OM3MLT72PKPBK/Z	OM4MLT72PKPBK/Z	OS1MLT72PKPBK/Z
96-Core	OM1MLT96PKPBK/Z	OM2MLT96PKPBK/Z	OM3MLT96PKPBK/Z	OM4MLT96PKPBK/Z	OS1MLT96PKPBK/Z
144-Core	OM1MLT144PKPBK/Z	OM2MLT144PKPBK/Z	OM3MLT144PKPBK/Z	OM4MLT144PKPBK/Z	OS1MLT144PKPBK/Z

