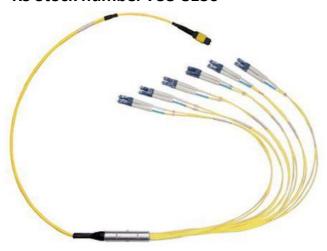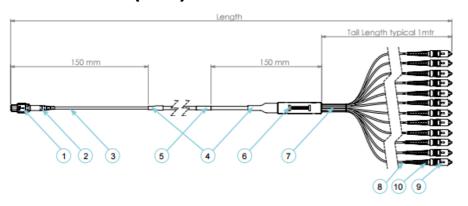# Datasheet
Fibre Optic Cable Assembly
RS Stock number 738-8136

Dimensions (mm)

1. MTP Connector
2. MTP Connector Boot
3. Fibre Optic Microcable
4. Heatshrink
5. Serial Number Label
6. Breakout Module
7. 2 mm Furcating Tubes
8. ID Clip
9. Discreet Connector
10. Discreet Connector Boot

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS	CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP® Elite (MM)	0.10 dB	0.35 dB	NA	MTP® Elite (SM)	0.10 dB	0.35 dB	>60dB
MTP® (MM)	0.20 dB	0.60 dB	NA	MTP® (SM)	0.25 dB	0.75 dB	>60dB
LC, SC (MM)	0.15dB	0.30dB	NA	LC, SC (SM)	0.18dB	0.25dB	>55/65dB*
LC, SC Premium (MM)	0.08dB	0.15dB	NA	LC, SC Premium (SM)	0.12dB	0.30dB	>55/65dB*

* UPC/APC

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm) ≤ 0.25 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)
	≤ 0.34 Typ (1550nm) ≤ 0.19 typ (1550nm)	≤ 2.9 Typ (850nm) ≤ 1.2 typ (1300nm)	≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm)	≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm)	≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	NA	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)

Description

Ruggedized fan-out assemblies route multifibre MTP connection
into discreet connectors are used to directly interconnect MTP cassettes,
panels or backbone MTP assemblies with the active equipment, saving costly
data centre rack space and easing fibre management.

MTP fan-out assemblies are offered in fibre types in standard 12, 24 or 48 core
versions using a compact and rugged micro-cable structure. The compact cables
optimize cableway use and improve airflow.

MTP® fan-out are built with highest quality components. Standard
MTP® as well low loss Elite versions are offered featuring low insertion loss for
demanding high speed networks where power budgets are critical.

Features

► OS1/2, OM3, OM4 fibre versions (OM1 and OM2 available)
► 12, 24 and 48 core microcable trunk assemblies
► LSZH, OFNP cable jacket
► Female or Male MTP® connectors
► Factory terminated and tested

Benefits

► MTP Interface- MTP US Conec brand components feature superior
optical and mechanical properties.
► Optimised Performance -low loss MTP Elite, discreet Premium connectors
and OM4 fibre assures low insertion losses and power penalties in tight
power budget high speed network environment.
► High Density- ruggedized fan-out allows for direct connection between
backbone and active equipment eliminating rack space usage
► Rapid Deployment- factory terminated modular system saves installation
and reconfiguration time during moves, ads and changes.
► Reliability- 100% tested- combination of high quality components and
manufacturing quality control guarantees product to the highest
standards

Technical Specification

► Data Centre Infrastructure
► Storage Area Network- Fibre Channel
► Parallel Optics & Infiniband
► Emerging 40 and 100Gbps Protocols

Standards Compliance

► TIA/EIA-568-C.3 and ISO/IEC 11801
► IEC-61754-7 & EIA/TIA-604-5
► NFPA 262 (OFNP) or IEC 60332 (LSZH)
► IEC-61754-20 (LC) & IEC-61754-14 (SC)
► Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC
► IEC-60793

Element	Characteristic
Fibre	OS1/OS2, OM1*, OM2*, OM3, OM4 (ISO/IEC 60793)
Cable	Microcable- 12, 24, 48 cores (ISO/IEC 60794) MAX OD: Max OD 12 cores 4.5 ± 0.3mm / Max OD 24 cores 4.5 x 7.4 ± 0.3mm Jacket material: LSZH, OFNP Jacket colour: Violet (OM3), Aqua (OM3, OM4), Yellow (OS1/OS2)
Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow) LC or SC (IEC 61754-20) Boot Colour: White Housing Color: Beige (MM), Blue (SM), Green (SM/APC)
Packaging	Length< 50m– PE bag / Length> 50m– Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C