SERIES ALPHA

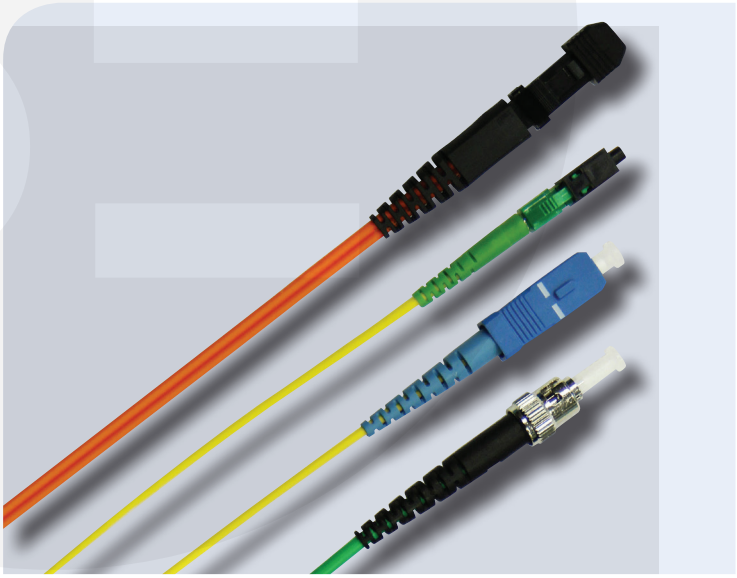
Pre-terminated Fibre Optic Cable Assemblies

1 Description:

Pre-terminated fibre optic cable assemblies present an efficient and effective cable deployment option for any size of fibre optic network. High precision factory terminations, coupled with exceptional quality cable in a range of constructions and styles and fully factory tested terminations ensure peace of mind and rapid deployment.

2 Applications:

- Data Centre, SAN & Enterprise networks
- Campus & site networks
- Remote locations including minesites & drilling fields
- Dangerous environments where splicing equipment is restricted
- Installations requiring rapid turnaround
- Plug and play networks



3 Features & Benefits:

- Compact multifibre terminations available up to 144 fibres
- Low losses due to quality factory terminations and premium connectors
- Rapid deployment time with preconnectorised assemblies - simply plug and play
- Compact size breakout units improve space management in high density applications
- A variety of cable constructions available including loose-tube, tight buffered riser, round mini & ribbon
- Available termination options include a range of simplex, duplex and multifibre connectors
- Optional integrated connector sheath limits potential damage during hauling and installation
- Eliminates the need for splicing equipment

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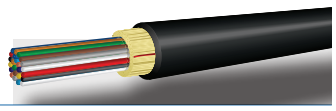
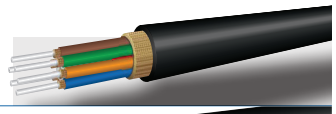
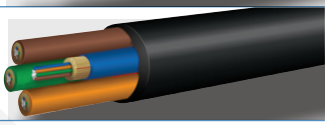
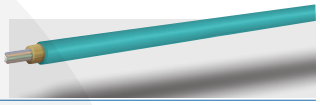
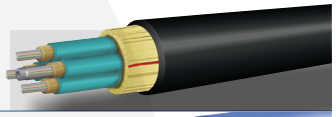
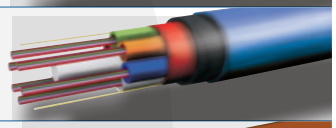
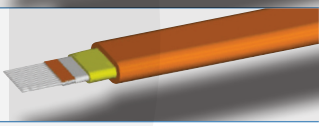
4 Manufacturing Options

Cable Type	Description	Fibre Counts	Oversleeving Sizes (mm)	Jacket Options	
Distribution (Dx)	900um tight-buffered distribution cable	2 - 144 (2 - 24 Miltac)	2.0, 3.0	LSZH	
Breakout (Bx)	2.0/2.5mm tightbuffered breakout cable	2 - 72 (2 - 24 Miltac)	N/A	LSZH	
Subgroup (Gx)	900um tight-buffered, 5.5mm subgroup fibre cable	24 - 144	2.0, 3.0	LSZH	
Micro cable (MC)	250um multicore micro cable	12	1.6, 2.0	LSZH	
Subgroup micro cable (SMC)	Subgrouped 250um multicore micro cable	12 - 144	1.6 (12 - 144f) 2.0 (12 - 96f)	LSZH	
Loose Tube (LT)	250um loose tubefibre cable	6 - 144	0.9, 2.0, 3.0	Nylon, CST, F/GRP, PE Sac Sheath	
Ribbon (RB)	250um ribbonised fibre cable	4, 8, 12	1.6, 2.0	LSZH	

5 Technical Specifications

Applicable Connectors	SC, SCA, LC, LCA, ST, FC[a]			
Fibre Mode	OM1	OM3	OM4	OS1/2
Core/Cladding (um)	62.5/125	50/125	50/125	9/125
Fibre Conformance	TIA/EIA 492AAAA	ITU G651.1	ITU G651.1	ITU G652.D[b]
Insertion Loss (max dB)	0.30	0.30	0.30	0.25
Insertion Loss (avg dB)	0.15	0.15	0.15	0.18
Insertion Loss (random)	0.20	0.20	0.20	0.18
Return Loss (dB)	N/A	N/A	N/A	APC: >60 PC: >50

a. Contact Series Alpha for non standard connector specifications

b. G657.A2 available by request

6 Applicable Standards

Insertion Loss	All SC, SCA, LC, LCA, ST, FC assemblies comply with the loss requirements of ISO/ IEC 61300-3-4, ISO/IEC 61300- 3-34 & AS/NZS ISO/IEC 14763.3
Return Loss	All singlemode assemblies comply with the return loss requirements set out in ISO/ IEC 61300-3-6
Cable Attenuation	Cable attenuation falls below levels specified in AS/NZS 3080
Testing	All testing is completed with reference grade patch leads and precision zirconia sleeve adapters and meet all requirements for testing in AS/NZS ISO/IEC 14763.3
Fibre Standards	Singlemode assemblies meet ITU 652.D & TIA/EIA 492 CAAA requirements OM3 & OM4 assemblies meet ITU 651.1 & TIA/EIA 492 AAAB requirements OM1 multimode patch leads meet requirements set out in TIA/EIA 492 AAAA
Low Smoke Zero Halogen	All LSZH patch leads meet the requirements for flame and fire retardant properties, low smoke opacity and nil halogens as set out in IEC 60332-1, IEC 60332-3, IEC 1034 1/2, & IEC 60754-1/2