

# DATA SHEET

## Part No: GLT-AD Series

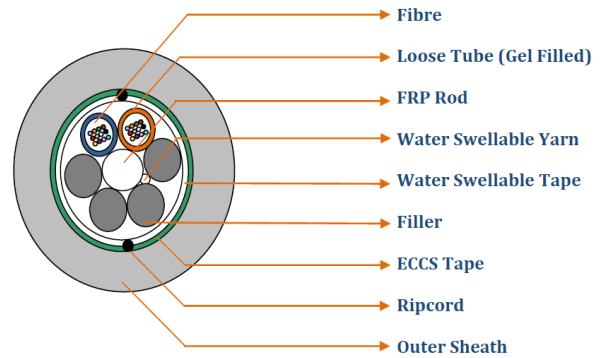
Description	Up to 6 x 2.0mm jelly filled loose tubes containing up to 12 optical fibres, laid up around a 2.1mm FRP central strength member, waterblocked with dry water swelling compounds, overall wrapped with water swellable tape and peripheral strength members, CSTA (ECCS) tape armoured, UV stabilized HDPE jacketed armoured optical fibre cable for outdoor use including direct burial applications.
	Available in 4, 6, 8, 10,12, 24, 36, 48, 60 and 72 fibre versions. All common fibre types including OM1, OM3, OM4 and G.652D available.
Applicable Standards	AS/AC S-008, AS 1049, ANSI/TIA 568-C.2, ISO/IEC 11801-2, AS/NZS 3080, ISO IEC 794
Suitable Applications	For outdoor use including duct, tray and direct burial. Not designed or intended for indoor use. Not fire retardant.

### Cable Construction Drawing



Picture for illustration purposes only.

### Typical construction



### Cross Sectional Drawing

24 fibre cable shown. Other fibre counts are similar



### Cable Description

Fibre	Nos. of Strands	Fibre Spec	Strand Size	Material
	1	Refer to Construction Table	250 µm over the acrylate	125 µm glass fibre with protective acrylate

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Loose Tube	Material	PBTP
	OD	2.0 mm
	Water Blocking	Jelly filled
	Number of fibres	6, 8 or 12 as applicable

Fibre Color	1	2	3	4	5	6	7	8	9	10	11	12
EIA/TIA 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Tube Color	1	2	3	4	5	6
EIA/TIA 598	Bl	Or	Gr	Br	Sl	Wh

Fillers	Material	HDPE
Central Strength Member	Material	FRP Rod
	Dimensions	2.1 mm
Cabling	Stranding configuration	6-around-1
	Water blocking between tubes, fillers and central strength member	Water swellable yarns and/or tapes as applicable
	Cabling type	S-Z stranding
Rip Cords	Quantity	2 cords applied at approximately 180°
Corrugated Armour	Material	ECCS (Electrolytic Chrome Coated Steel with bonded polymer layers) steel tape
	Application	Longitudinal with corrugations
Outer jacket	Material	UV stabilized HDPE
	Colour	Black
	Overall Diameter	11.0 mm ± 0.5 mm

Construction Table					
Part Number	Fibre Type	# of Fibres	# of Tubes	# of Fibres/Tube	# of Fillers
GLTSM1AD004BE	G.652D	4	1	4	5
GLTSM1AD006BE	G.652D	6	1	6	5
GLTSM1AD008BE	G.652D	8	1	8	5
GLTSM1AD010BE	G.652D	10	1	10	5
GLTSM1AD012BE	G.652D	12	1	12	5
GLTSM1AD024BE	G.652D	24	2	12	4
GLTSM1AD036BE	G.652D	36	3	12	3

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Construction Table					
Part Number	Fibre Type	# of Fibres	# of Tubes	# of Fibres/Tube	# of Fillers
GLTSM1AD048BE	G.652D	48	4	12	2
GLTSM1AD060BE	G.652D	60	5	12	1
GLTSM1AD072BE	G.652D	72	6	12	0
<b>OM1</b>					
GLTOM1AD004BE	OM1	4	1	4	5
GLTOM1AD006BE	OM1	6	1	6	5
GLTOM1AD008BE	OM1	8	1	8	5
GLTOM1AD010BE	OM1	10	1	10	5
GLTOM1AD012BE	OM1	12	1	12	5
GLTOM1AD024BE	OM1	24	2	12	4
<b>OM3</b>					
GLTOM3AD004BE	OM3	4	1	4	5
GLTOM3AD006BE	OM3	6	1	6	5
GLTOM3AD008BE	OM3	8	1	8	5
GLTOM3AD010BE	OM3	10	1	10	5
GLTOM3AD012BE	OM3	12	1	12	5
GLTOM3AD024BE	OM3	24	2	12	4
<b>OM4</b>					
GLTOM4AD004BE	OM4	4	1	4	5
GLTOM4AD006BE	OM4	6	1	6	5
GLTOM4AD008BE	OM4	8	1	8	5
GLTOM4AD010BE	OM4	10	1	10	5
GLTOM4AD012BE	OM4	12	1	12	5
GLTOM4AD024BE	OM4	24	2	12	4
<b>OM3 and G.652D</b>					
GLT3S1AD12-12BE	OM3	12	1 (Blue Tube)	12	4
	G.652D	12	1 (Orange Tube)	12	

Test	Criteria
Tensile	Load: 2.0 KN
Crush	Load: 2.0 kN short term 1.0 kN long term
Impact	Energy: 10N/m
Bend	No Load 20 x cable OD
Torsion	± 180°
Temp. Range	-40°C to +70°C

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Test	Criteria
Water Penetration	Cable Length: 3 metre Height of Water: 1 metre Duration: 24 hours