FIBRE OPTIC / MULTICORE ASSEMBLIES

Pre-terminated multicore fibre

Multicore assemblies built to your exact cable schedule, terminated, tested and protected in the factory.

4 to 48 cores | Custom breakout lengths | Factory tested | TB, LT, CSTA & SWA

4 – 48	4 types	5 styles	Tested
Core count	TB, loose tube, CSTA, SWA	LC, ST, SC, FC, LC Uniboot	Every assembly, results supplied

Overview

Each end is terminated, tested and protected in the factory, so the installer pulls the cable and connects. No on-site splicing, no fusion team, no rework.

- **Cuts on-site time** and skilled labour cost.
- **Pulling tube** protects terminated ends through ducts and containment.
- **Armoured options** (CSTA and SWA) for external and harsh routes.
- **Full traceability** with per-assembly test documentation.

Specifications

Fibre count	**4 core to 48 core**
Cable types	**Tight buffered, loose tube, CSTA, SWA**
Fibre grades	**Singlemode (OS2), OM1, OM3, OM4**
Connectors	**LC, ST, SC, FC, LC Uniboot**
Customisation	**Custom breakout, leg and overall lengths**
Protection	**QAD protective pulling tube as standard**
Packaging	**Wooden or metal drums and reels**
Testing	**Individually factory tested, results supplied**

Choosing a cable type

Feature	Tight buffered	Loose tube	CSTA corrugated steel tape	SWA steel wire armoured
Best application	Indoor building backbones, risers & communications rooms	Outdoor duct networks & campus links	Direct burial, underground duct routes & demanding outdoor environments	Direct burial, heavy-duty industrial & infrastructure projects
Indoor use	Ideal	Suitable (LSZH jacket)	Suitable	Suitable
Outdoor use	Suitable when installed in protective ducting	Excellent for outdoor duct routes	Excellent	Excellent
Direct burial	No	No	Yes	Yes
Moisture protection	Moderate	High	Very high	Very high
Mechanical protection	Standard	Good	Excellent	Maximum
Crush resistance	Standard	Good	Excellent	Excellent
Rodent protection	No	No	Yes	Yes
Flexibility	High	Moderate to high	Low	Moderate
Key advantage	Flexible for internal routing	Ideal for outdoor duct installations	Compact armoured protection for direct burial	Maximum protection for demanding environments
Relative cost	Lowest	Low	High	Highest

Typical applications

Data centres | Telecommunications | Commercial installations

Made to order, from one assembly upwards

Send a drawing, sketch or sample for a quote. Own-scheme labelling for trade partners.

qadnetworks.co.uk

QAD Networks Ltd
25 Bowlers Croft, Basildon, Essex, SS14 3DX
British-manufactured cable assemblies since 2009

+44 (0)1787 462489 · sales@qad.uk.com
ISO 9001:2015 certified · FIA member · Made in Britain

© 2026 QAD Networks Ltd. All rights reserved.

Specification by cable type

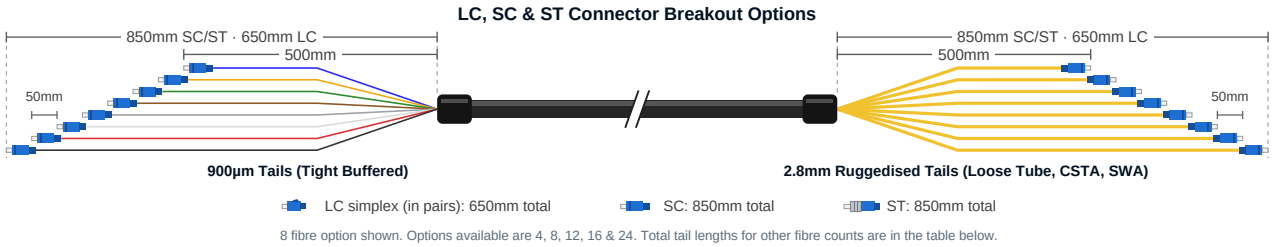
Specification	CSTA	SWA	Loose tube	Tight buffered
Outer jacket	Black LSZH	Black LSZH	Black LSZH	Black LSZH
Diameter	13.4 mm	11.1 mm (4–12 core) 12.3 mm (16–24 core)	5.8 mm (4–12 fibre) 6.93 mm (16–24 fibre)	5.5 – 8.9 mm
Weight	227 kg/km	217 / 240 kg/km	37 kg/km (4–12) 48 kg/km (16–24)	33 – 78 kg/km
Min bend radius, long term	134 mm	167 mm (4–12 fibre) 185 mm (16–24 fibre)	58 mm (4–12 fibre) 69 mm (16–24 fibre)	55 – 89 mm
Min bend radius, short term	237 mm	222 mm (4–12 fibre) 246 mm (16–24 fibre)	87 mm (4–12 fibre) 104 mm (16–24 fibre)	83 – 134 mm
Max tensile (installation)	2000 N	3500 / 4500 N	1000 N	1000 – 2300 N
Max crush resistance	7500 N/m	3500 N/10 cm (4–12 fibre) 4500 N/10 cm (16–24 fibre)	1500 N/m	1000 N
Temperature (installation)	−40 °C to +70 °C	−25 °C to +70 °C	−40 °C to +70 °C	−20 °C to +60 °C

Fibre performance

Type	Core / clad µm	Fast Ethernet 100Mb	Gigabit GbE	10 Gigabit 10GbE	40 Gigabit 40GbE	100 Gigabit 100GbE	40G SWDM4	100G SWDM4
Multimode OM1	62.5/125	2 km	275 m	33 m	–	–	–	–
Multimode OM3	50/125	2 km	800 m	300 m	100 m	100 m	240 m	75 m
Multimode OM4	50/125	2 km	1100 m	400 m	150 m	150 m	350 m	100 m
Singlemode OS2	9/125	40 km	100 km	40 km	40 km	40 km	–	–

Supported link distance by application. – = not supported.

Breakout options



8 fibre option shown. Options available are 4, 8, 12, 16 & 24. Total tail lengths for other fibre counts are in the table below.

Tail length (mm)	4	8	12	16	24
LC simplex	550	650	750	850	1050
SC	650	850	960	1250	1650
ST	650	850	960	1250	1650

Total tail length by fibre count. Shortest tail 500 mm, staggered in 50 mm steps (LC simplex in pairs). 900 µm tails for tight buffered; 2.8 mm ruggedised tails for loose tube, CSTA and SWA.

Gland options



Standard pre-terminated fibre gland

Black LSZH gland as standard, suitable for most applications.



Hawke ATEX 501/421 brass M20

For non-armoured cables. Flameproof, with increased safety and dust protection. ATEX / IECEx / c CSA us certified.



Hawke ATEX 501/453 brass M20

For armoured cables. Flameproof, with increased safety and dust protection. ATEX / IECEx / c CSA us certified.

Send us your cable schedule

Core count, fibre grade, connectors and lengths each end. We quote for one assembly or a thousand.

qadnetworks.co.uk

QAD Networks Ltd
25 Bowlers Croft, Basildon, Essex, SS14 3DX
British-manufactured cable assemblies since 2009

+44 (0)1787 462489 · sales@qad.uk.com
ISO 9001:2015 certified · FIA member · Made in Britain

© 2026 QAD Networks Ltd. All rights reserved.