

Dark Fibre

- **Design and manage your own private fibre network**
- **Physical separation from other networks**
- **GlobalConnect manages monitoring and maintenance**
- **Protocol-transparent fibre technology**
- **Unlimited bandwidth**

GlobalConnect offers - as one of few providers in Denmark - sale or rent of dark fibre solutions.

Freedom of choice

Dark fibre can be bought or rented to connect locations within Denmark and Northern Germany. The equipment needed for utilization of the fibres is not part of the Dark Fibre solution, which means complete freedom of choice as to what type of equipment you want to install.

No limits on utilisation

Dark Fibre may be utilised up to whatever the limits of the installed equipment are. All fibres are of the single-mode type and meet relevant ITU-T recommendations.

Network Monitoring

GlobalConnect's major fibre stretches are monitored using a so-called OTDR (Optical Time Domain Reflectometer) monitoring system. Any breach of a fibre will trigger an alarm at the Operations- and Management Centre of GlobalConnect, which is manned at all times and throughout the year. The system indicates the location of the breach within one meter, minimising the time needed for fault finding.

Diverse routing

Dark Fibre is available with single route or with protection. In the latter case GlobalConnect ensures that the two routes do not share any duct along the way. Inside buildings, separate cable ducts are used towards the termination room. Diverse routing is established by ordering two Dark Fibre Pairs, alternatively routed.

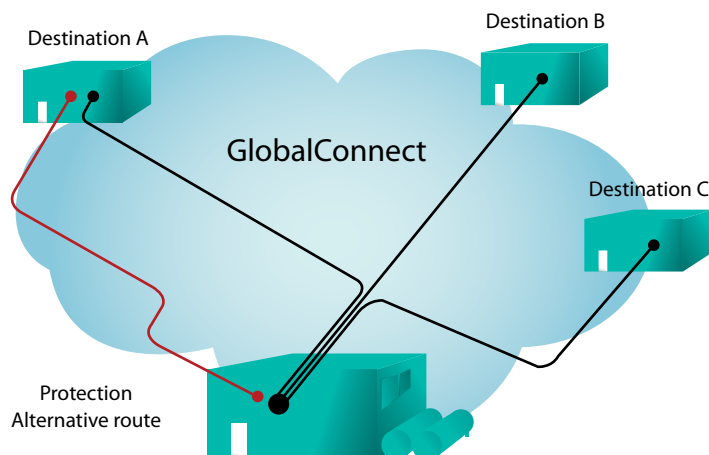


Figure 1: Dark Fibre, single and with protection

Technical Data

Service Level Agreement

Moreover, GlobalConnect carries out preventive maintenance by route checks, by the monitoring of places where other construction companies are digging, by attenuation testing, and by correct responses of all relevant duct enquiries. All of this results in a Service Level Agreement with 99.80% availability, which is the highest on the market.

Handover

When the fibres are ready for use, a certificate is issued confirming that the fibres meet the acceptance test. GlobalConnect assumes operational responsibility up to and including the connector on the fibre patch panel.



Figure 2: GlobalConnect offers fibre coverage all over Denmark and in Northern Germany

Standards	Conforming to ITU-T G.652 and G.655
Wire types	6-264 optical fibres
Casing	Black MDPE-cloak and orange PA-sleeve
Max attenuation	0.4 dB/km at 1310 nm & 0.25 dB/km at 1550nm (excl. Connector/splicing)
Repair time, goal	8 hours
Repair time, max	24 hours*
Surveillance	24x7
Availability	99.80%
Interface types	E2000/APC, SC/PC, FC/PC, LC/PC

*Subsea cables excluded