

GBAM

Multi Loose Tube Cable
Outdoor
A-DQ(ZN)2Y

Ordering Information

Belden European Part Numbers

Fibre type / count	192
9/125 ITU G.652D	GBAM892
Std. plywood reel (non-returnable)	Ø 1400 * 1150 mm 145 kg
Std. delivery length	3100 ± 100m

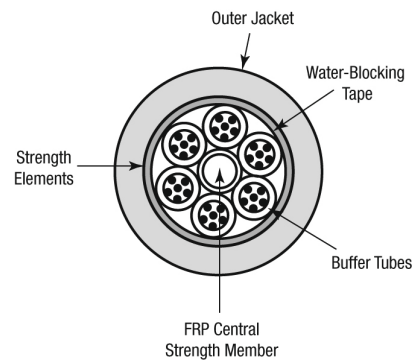
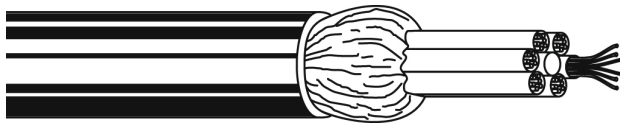
Applications

- For **outdoor** use in structured (data) wiring systems such as (**campus backbone**).
- For **outdoor** use in networks for telecom, cable TV and/or broadcast.
- Easy to install in ducts, tunnels and trenches by means of compressed air or pulling wire.
- Suitable for direct burial.

Features & Benefits

- **Predicted lifetime > 30 years.**

Construction & Dimensions



Cable Specifications (construction in accordance with IEC 60794)

- Dielectric central element of glass reinforced plastic (GRP), also as protection against kinks, surrounded by swelling yarns.
- Jelly filled (non-dripping and silicon-free) loose tubes with primary coated optical fibres ($\text{Ø } 250 \pm 15 \mu\text{m}$).
Individually colour coded optical fibres: red – green – blue – yellow – violet – pink – orange – black – grey – brown – white – turquoise.
- The loose tubes are stranded around the central element, if necessary with fillers (PE-natural) and surrounded by swelling tape. Colour coding of the loose tubes:
Inner layer with 6 tubes: 1. red – 2. green – rest white.
Outer layer with 10 tubes + 2 fillers : : 1. green – 2. red – rest white.
- Swellable (for the longitudinal watertightness) aramid yarns as strength members.
- Black UV resistant PE outer jacket.
Identification: BELDEN OFC – “cable type” – “number x fibre type” + date-, meter- and P/N marking.

Mechanical Data

No. of fibres	192
Cable core: inner layer	6 tubes with 12 fibres
Cable core: outer layer	10 tubes with 12 fibres + 2 fillers
Ø Central element (mm)	2.6
Ø Loose tube (mm)	2.5
Ø nom./max. (mm)	18.2 / 18.5
Energy of flame (kJ/m)	6260
Weight (kg/km)	225

Optical Characteristics

Characteristics (cabled) Single-Mode – Matched-Cladded optical fibres according to ITU.

European Partnumber Coding, Position 5	Fibre-Type	Mode-Field /Cladding Diameter (um)	Wave-length (nm)	Attenuation average/ max. (dB/km)	Dispersion (ps/(nm-km))	PMD (ps/km)	Cable Cut-off Wave-length (nm)
8	9/125 G.652D	9.2 ± 0.4 125 ± 0.7	1310 1550	0.32 / 0.40 0.21 / 0.30	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260

Note A- Link design value

A test report (attenuation) is supplied with each delivery.

Mechanical, Physical and/or Environmental Characteristics

Requirements	
Temperature range according to IEC 60794-1-2-F1 Transport/storage Installation Operation	-30 to + 70 °C -5 to + 50 °C -30 to + 70 °C
Pulling tension according to IEC 60794-1-2-E1 Long term Short term	≤ 4000 N ≤ 8000 N
Bending radii for fibres and tubes Installation/operation	>25 mm
Watertightness according to IEC 60794-1-2-F5	Pass
Crush resistance according to IEC 60794-1-2-E3 Cable	≤ 20 KN/m
Bending radii cable Static according to IEC 60794-1-2-E11 Dynamic according to IEC 60794-1-2-E6	15 x Ø 20 x Ø

Guide to installation and handling

- When laying and installing optical fibre cables it is **vitaly important not to exceed the specified values** set for pulling tension, bending radii and temperature. The installation methods have to be in accordance with the common standards.
- To ease insertion into tubes by means of compressed air or pulling wire, certified lubricants (e.g. paraffin) may be used. The use of soap or similar substances as lubricants is strictly prohibited.
- If a cable needs to be fastened, constrictions > 0.3 mm must be prevented.
- The jelly filling inside the tubes can be removed using a tissue soaked in turpentine.
- It is advisable to cap the cable-ends during storage.

Options

- Cables for indoor/outdoor use.
- **Non-standard cable constructions**, colours, details and/or additional information regarding specifications are available on request.

Revision

Rev.	Description	Date	Init.
Date: 28/11/08	Page 1 of 1	Part Number:	
Orig.: SN	Review:	GBAM	