The whole
World of Cable
all from one source

Bayka
BAYERISCHE KABELWERKE AG
seit 1885

BayCom® - Fibre Optic Cables (FOC)

- For communication and data networks
- Outdoor-, indoor- and universal cables

THANK YOU VERY MUCH

THAT YOU ARE CONSIDERING US!

"Satisfied customers are the standard of our work!"

With this motto the management team runs the company. Over 130 years of experience in the cable production means a maximum of technical competence in development, design and production.
We use this know-how entirely for the success of our customers. We also offer highest flexibility in planning, product information and service and can also produce customer-specific special designs in short delivery times. Convince yourself of our sophisticated logistics system.

Thomas Schrimpff
Speaker of the Management Board

CONTACT

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Chairman of the Supervisory Board: Christiane Wilms-Mester,
Board of Directors: Johann Erich Wilms
Place of Business: 91154 Roth Germany, Field under in the commercial register,
HRB-No. 314 District Court of Nuremberg

Bayka since 1885

Edition: 02/2014

Content

Product portfolio

BayCom® LWL outdoor cable

BayCom® LWL air cable

BayCom® LWL micro cable

BayCom® LWL universal cable

others

Edition: 02/2014

Product overview of the BAYERISCHE KABELWERKE AG

BayEnergy® - Power cables

Cables with copper conductor

△ NYY

△ NYCY / NYCWY

△ NYFGY

Cables with Aluminium conductor

△ NAYY

△ NAYCWY

△ NAY2Y

Cable with Copper- or Aluminium conductor and lead sheath

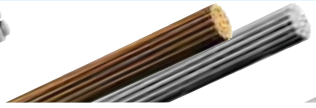
△ NKBA

△ NEKEBA

△ NAKBA

VPE-isolated open wire, Cu- und Al-Ropes

△ NFA2X



△ Cu, Al

△ NB

BayEnergy® - Portfolio

- Copper conductor 1 kV to 30 kV
- Aluminium conductor 1 kV to 30 kV
- Paper isolated 1 kV to 36 kV
- VPE-isolated open wire 1 kV
- Grounding cable, Cu-, Al-Ropes
- International Cables

Norms and Specifications

and much more ...

BayMotion® - Cables for Automation & Drive

Flexible connecting cables

△ YSLY-J Flex

△ YSLYK-JZ UV-Flex

△ YSLCY-JZ Flex-Oil

Low capacitance engine connection cables

△ 2YSLCYK-J UV-Flex

△ 2YSLCY-J EMC-Flex

△ 2YSLCHK-J Flex-Oil

Flexible TPU-Connecting cables

△ Flex TPU

△ Flex TN-C TPU

△ EMV-Flex TPU

BayMotion® - Portfolio

Flexible connecting Cables
Optional:
- UV-resistant
- Oil-resistant

Low capacitance engine connection cables
Optional:
- UV-resistant
- halogen free, flame retarding

Flexible TPU-Connecting cables

Norms and Specifications

Edition: 02/2014

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BayRail® - Railway- and Signalling cables

Railway- and Signalling in according to Deutschen Bahn AG

△ A-2YOF(L)2YB2Y

△ AJ-2YOF(L)2YDB2Y

△ AJ-02SF(L)2YDB2Y

Rail foot-, PZB-connecting and PZB-control cables

△ A2YTF(L)2YV

△ A-02YSTF(L)2YB2Y

△ A-2Y(ZG)2Y

BayRail® - Portfolio

- Railway- and Signalling cables
- Railfoot cables
- PZB-connecting- and control cables

Norms and Specifications

BayCom® - Telekommunication-, FO-Cables

BayCom®, BayCom®★, BayCom®★★, Multisystem-/WAN cables

△ A-2YF(L)2Y /
A-02Y(L)2Y

△ A-02YSTF(L)2YB2Y

△ AJ-02YSTF(L)2YDB2Y

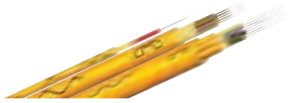
Inhouse- & Outdoor-HF-switchboard cables (xDSL), sectioning cables

△ S-09YS(St)CH 2...

△ T-2Y(St)H

△ VDSL-Inhousekabel

Fibre optic cables (FOC), Outdoor-, Air- and Universal-cables



△ J-VH/J-V(ZN)H/J-V(ZN)HH

△ A-DQ(ZN)b2Y /
A-DQ(ZN)2Y(SR)2Y

△ A-DSF(ZN)(L)2Y

BayCom® - Portfolio

- BayCom®★ and BayCom®★★
- Multisystem cables
- Long-distance traffic cables
- Inhouse-HF-Control cables
- Outdoor-HF-Control cables (xDSL)
- Switchboard- and xDSL-Cables
- Fibre Optical Cables (FOC)

Norms and Specifications

BaySpecial® - Special cables

Hybrid cable (PowerComcable), Grounding cable and much more ...

△ PowerComcable (PCc)

△ Theft resistant cables
- CuStAl

△ Solar-PV-Line

Since many years we are development partner of well-known companies and have the flexibility to also produce to your requirements!
Send us an E-Mail an we will have a look for your requirements.

BaySpecial® - Portfolio

- Theft resistant cables
- Hybrid cables, Solar cables
- Cable for customer requirements

Norms and Specifications

Edition: 02/2014

BayCom® FO cables

Overview and technical basics

Overview

The product line of BayCom® fibre optic cable is used in all telecommunication networks, structured data networks as outdoor cable for direct burial or pipe laying, aerial cable for installation on masts, micro cable for blowing into microducts for interiors and as a universal (indoor/outdoor) cable.

- FO outdoor cable
- FO aerial cable
- FO universal (indoor/outdoor) cable
- FO micro cable
- FO indoor cable

The production is according to the following standards:

- DIN VDE 0888-3, EN 60794-3 (VDE 0888-108)
- EN 187105 (VDE 0888-114)
- ITU-T Rec. G.651 bis G.657
- IEC 60793 und 60794
- DT AG TS-0311
- DB Dlk 1.011.003y, Dlk 1.011.005y
- Bayka company standard LWL 01 (outdoor cable)
- Bayka company standard LWL 02 (rail foot cable)
- Bayka company standard LWL 03 (aerial cable)
- Bayka company standard LWL 04 (indoor cable, universal cable)
- Fibre specification acc. to BayCom★

As a certified supplier and development partner, we meet the strict regulations of leading network operators, such as German Telekom AG, German Bahn AG, Vodafone AG, E.ON AG, Thüga and a variety of other businesses.

Technical Basics

Depending on the application, fibre optic cables are produced with different adapted to the respective application design versions. (see selection table)

- For laying in ground, trough channels or similar types of installation cables are manufactured with a rugged sheath. The wall thicknesses correspond to the years of experience for fibre optic and communication cables (VDE 0888, VDE 0816 and similar).
- For fibre optic cables, which are blown into tubes, special plastic blends are used. Optimized wall thickness and flexibility allow large blowing lengths.
- Universal cables are mainly used in industrial and factory wiring. These fibre optic cables have a special halogen-free and flame retardant outer sheath and allow installation inside buildings and outdoors, but not directly in the ground.
- Micro cables for blowing into microducts allow a cost-effective fibre-optic cabling with a high packing density.
- Halogen free, flame retardant cables for internal wiring buildings
- be used with central or stranded loose tube in LAN networks.

Fibre specifikation single-mode fibres

We purchase optical fibres from verified suppliers. In addition, the fibres of a goods receipt inspection are subjected to ensure a consistent and high quality.
The single-mode fibres listed below are used in the Bayka as standard and provide extremely short delivery times:

- **Single-mode fibre acc. to ITU-T Rec. G.652.D Standard for general use in wide area networks**
  These fibres are ideal for use in urban, local and access networks that are operated at a wavelength of 1310 nm and / or 1550 nm.
  Your Benefits:
  The specified attenuation values at 1310 nm and 1550 nm are measured on each cable length and is guaranteed by inspection before shipment.

- **Single-mode fibre acc. to ITU-T Rec. G.652.D BayCom★ with improved properties in the entire wavelength range of 1260 to 1625 nm**
  In wide area networks, we recommend the single-mode fibres by BayCom★. These fibres have improved optical performance over the entire wavelength range to 1625 nm. Guaranteed attenuation at 1310 nm, 1550 nm and 1625 nm allow multiplexing by a future-proof and flexible expandable cable network.
  For use at very high data rates, the measurement of the polarization mode dispersion PMD is in addition to customer request at 1550 nm.
  Your Benefits:
  The attenuation is measured and guaranteed at 1625 nm in addition to any cable length by the output control.
  On customer request, the PMD is measured at 1550 nm on each cable length in a complex process and additionally guarantees.

- **Bend-optimised single-mode fibre ITU-T Rec G.657.A1 for demanding applications with small bending radii, eg in cabinets and enclosures**
  This fibre enables more compact rack and enclosure designs and protects the network against excessive losses arising from accidental bending of the fibre. In addition, this fibre is far less vulnerable to physical and thermal effects, such as bending of the cable and in the complicated installation in enclosures and cabinets. The fibre is compatible with the standard single-mode fibres and BayCom★ fibres.
  Your Benefits:
  The specified attenuation values at 1310 nm and 1550 nm are measured on each cable length and is guaranteed by inspection before shipment.

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BayCom® FO cables

Overview and technical basics

Fibre specifikation multi-mode fibres

The following multi-mode fibres are used in the Bayka as standard:

- Multi-mode fibre OM2 (G50/125 2,5B500 0,7F500)
- Multi-mode fibre OM3 (G50/125 2,5B1500 0,7F500)
- Multi-mode fibre OM4 (G50/125 2,5B3500 0,7F500)

Additional fibre specifications

Cable with other fibre types and qualities can be produced according to your specifications due to our flexible and optimized production.

Color code acc. to IEC 60304
The fibres in a loose tube are colored differently. For bundles with more than 12 fibres, the fibres get an additional 13 to 24 ring mark.

The color code can also be used if desired to mark the buffer tubes of fibre optic cables.

Faser		
1	red	
2	green	
3	blue	
4	yellow	
5	white	
6	grey	
7	brown	
8	purple	
9	turquoise	
10	black	
11	orange	
12	pink	

Additional construction elements

Longitudinal water protection
In case of damage of the cables prevent a hydrophobic filling of the buffer tubes and swellable fleeces in the cable the propagation of water in the longitudinal direction and limit the damage.
As an alternative to the dry-filled fibre optic cables can also petroleum jelly or a special filling material used as longitudinal water protection (see selection table).

Q	cable cory dry filled, longitudinally watertight
F	cable cory with petroleum jelly filled, longitudinally watertight
OF	cable cory with special jelly filled, longitudinally watertight

Laminated sheath
A coated aluminum foil as transverse water protection and static shielding and the plastic sheath give an effective diffusion protection. The laminated sheath is a proven construction element in communication and telecommunication cables over decades. The laminated sheath can also be used for locating the cable.

Strength members / rodent protection
Glass rovings and / or aramid yarns are used as strength members. For cables with nonmetallic rodent protection reinforced glass rovings are used.
An even higher protection against damage caused by rodents is achieved by a metal armouring. For this purpose a longitudinally running forming, corrugated steel tape with an additional outer protective sheath is applied over the cable sheath.

BayCom® Quality - Your benefit

BayCom® fiber optic cables provide additional advantages in laying, installation and in use. Cable construction, materials, mechanical and optical properties are defined in the BayCom factory standards:

- All BayCom® fibre optic outdoor cables have VDE approval as, or VDE Certified production control.
- In almost all BayCom® fibre optic cables ripcords facilitate the stripping of the inner and outer sheath.
- Elaborate tests ensure high security and an economic, durable cable network.
  - tensile strength of the cable
  - cable bending under tension
  - repeated bending
  - impact strength
  - buckling strength
  - torsional strength
  - abrasion resistance
  - Attenuation increase at bending stress under transverse compression load and at temperature changes

Edition: 02/2014

BayCom® FO cables

Overview and selection table

Fibre optic outdoor cable, blowing optimised fibre optic cable

Fibre optic outdoor and blowing optimised fibre optic cables

Product dry core	Product jelly filled	loose tube	Fibre No°	direct burial	blowing into tube	blowing into Microduct	laying on mast	laying outdoor	laying indoor	rodent protected
A-DQ(ZN)2Y light outdoor cable		central	2 ... 24	+/-	+	-	-	++	+/- *)	-
A-DQ(ZN)2Y direct burial		central	2 ... 24	+	+/-	-	-	++	+/- *)	-
A-DQ(ZN)2Y blowing optimised	A-DF(ZN)2Y blowing optimised	stranded	2 ... 288	+/-	++	-	-	++	+/- *)	-
A-DQ(ZN)2Y direct burial	A-DF(ZN)2Y direct burial	stranded	2 ... 288	+	+/-	-	-	++	+/- *)	-
A-DQ(ZN)b2Y light outdoor cable		central	2 ... 24	+	+	-	-	++	+/- *)	+
A-DQ(ZN)b2Y direct burial		central	2 ... 24	++	+/-	-	-	++	+/- *)	+
A-DQ(ZN)b2Y blowing optimised	A-DF(ZN)b2Y blowing optimised	stranded	2 .. 288	+/-	++	-	-	++	+/- *)	+
A-DQ(ZN)b2Y direct burial	A-DF(ZN)b2Y direct burial	stranded	2 ... 288	++	+/-	-	-	++	+/- *)	+
A-DQ(ZN)2Y(SR)2Y direct burial	A-DF(ZN)2Y(SR)2Y direct burial	stranded	2 ... 288	++	-	-	-	++	+/- *)	++
	A-DF(ZN)(L)2Y A-DOF(ZN)(L)2Y direct burial	stranded	2 ... 288	++	+/-	-	-	++	+/- *)	-
	A-DSF(ZN)(L)2Y + Cu A-DSOF(ZN)(L)2Y + Cu direct burial	stranded	2 ... 288	++	+/-	-	-	++	+/- *)	-
Further cable types on request										

++ very well suited + suitable +/- conditionally suitable - not suitable

*) For fire-and explosion-threatened workplaces cable with PE outer sheath is not possible without adequate protective measures.

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BayCom® FO cables

Overview and selection table

Fibre optic overhead cables, fibre optic micro cable, fibre optic universal cable

FO aerial cables

Product dry core jelly filled	loose tube	Fibre No°	direct burial	blowing into tube	blowing into Microduct	laying on mast	laying outdoor	laying indoor	rodent protected
A-DQ2Y(ZG)2Y	stranded	2 ... 288	+/-	+/-	-	++	++	+/- *)	-
Further cable types on request									

++ very well suited + suitable +/- conditionally suitable - not suitable
*) For fire-and explosion-threatened workplaces cable with PE outer sheath is not possible without adequate protective measures.

FO micro cables

Product dry core jelly filled	loose tube	Fibre No°	direct burial	blowing into tube	blowing into Microduct	laying on mast	laying outdoor	laying indoor	rodent protected
A-DQ(ZN)2Y (HD) Micro	central	2 ... 24	-	-	++	-	+	+/- *)	-
A-DQ(ZN)2Y (HD) Micro	stranded	4 ... 72	-	-	++	-	+	+/- *)	-
Further cable types on request									

++ very well suited + suitable +/- conditionally suitable - not suitable

*) For fire-and explosion-threatened workplaces cable with PE outer sheath is not possible without adequate protective measures.

Product informations on request!

FO universal cables

Product dry core jelly filled	loose tube	Fibre No°	direct burial	blowing into tube	blowing into Microduct	laying on mast	laying outdoor	laying indoor	rodent protected
U-DQ(ZN)bH	central	2 ... 24	-	-	-	-	++	++	+
U-DQ(ZN)bH	stranded	4 ... 288	-	-	-	-	++	++	+
U-DQ(ZN)2Y(SR)H	central	2 ... 24	-	-	-	-	++	++	++
Further cable types on request									

++ very well suited + suitable +/- conditionally suitable - not suitable

LWL-Innenkabel

Product dry core jelly filled	loose tube	Fibre No°	direct burial	blowing into tube	blowing into Microduct	laying on mast	laying outdoor	laying indoor	rodent protected
I-D(ZN)H	central	2 ... 24	-	-	-	-	-	++	-
I-D(ZN)H	stranded	4 ... 288	-	-	-	-	-	++	-
Further cable types on request									

++ very well suited + suitable +/- conditionally suitable - not suitable

Product informations on request!

The following product pages are an extract from the comprehensive range of Bayka.
Please contact our sales unless your cable and / or fibre specification is not listed.

Edition: 02/2014

BayCom® FO cables

Technical data SM-fibres

Single-mode fibre E9/125

Geometrical and mechanical properties

Technical data		G.652.D Standard	G.652.D BayCom★	G.657.A1 Bend-insensitive fibre
Type of fibre		**E9/125**	**E9/125**	**E9/125**
		OS2	OS2 BayCom★	A1
Specification		ITU-T G.652.D	BayCom★	G.657.A1
Field diameter. µm	at 1310 nm	9,2±0,6	9,2±0,4	9,0±0,5
	at 1550 nm	not specified	10,4±0,6	10,0±0,5
Cladding diameter µm		125±1	125±0,7	125±0,7
Fibre diameter µm	ungefärbt	not specified	245±10	245±10
Concentricity deviation between field and cooating µm		≤ 0,6	≤ 0,5	≤ 0,5
Roundness deviation coating %		≤ 1,0	≤ 0,7	≤ 0,7

Optical properties

Technical data			G.652.D Standard	G.652.D BayCom★	G.657.A1 Bend-insensitive fibre
Type of fibre			**E9/125**	**E9/125**	**E9/125**
			OS2	OS2 BayCom★	A1
Attenuation dB/km	100% measured and guaranteed	at 1310 nm	≤ 0,36	≤ 0,35	≤ 0,36
	Values acc. to fibre manufacturer	at 1383 nm	≤ 0,34	≤ 0,33	≤ 0,36
	Values acc. to fibre manufacturer	at 1490 nm	≤ 0,25	≤ 0,24	≤ 0,27
	100% measured and guaranteed	at 1550 nm	≤ 0,22	≤ 0,21	≤ 0,21
	Values acc. to fibre manufacturer	at 1625 nm	not specified		≤ 0,23
	100% measured and guaranteed	at 1625 nm		≤ 0,23	
Chromatic dispersion ps/[nm x km]		at 1285 ... 1330 nm	≤ 3,5	≤ 3,0	≤ 3,5
		at 1383 nm	not specified	≤ 7,0	
		at 1550 nm	not specified	≤ 18	≤ 18
PMD ps/√km (fibre in cable)					
	Values acc. to fibre manufacturer	at 1550 nm	not specified		≤ 0,2
	100% measured and guaranteed	at 1550 nm		≤ 0,2 [1])	

Important information about Bayka standard and BayCom★ fibre optic cables!

The fibrr attenuation at 1310 nm and 1550 nm is measured on each drum and on each fibre in the test lab and guaranteed.
For BayCom★ Fibre optic cable attenuation at 1625 nm is measured and guaranteed.
***) Measurement of the PMD is added to the customer requirements at each cable length.**

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BayCom® FO cables

Technical data MM-fibres

Multi-mode fibre G50/125

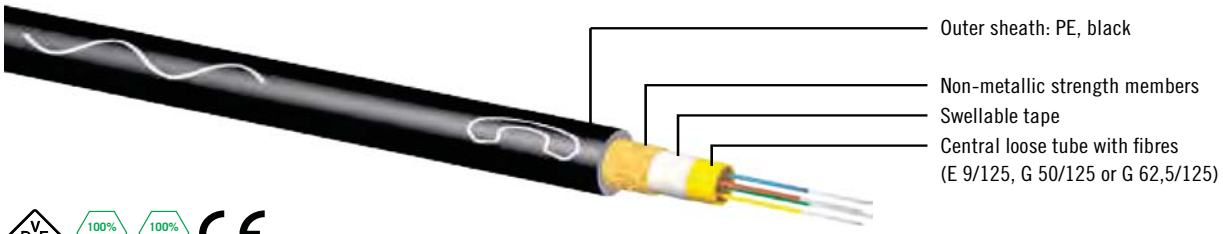
Technical Data (values measured in the optical cable)		OM2	OM3	OM4
Type of fibre		**G50/125**	**G50/125**	**G50/125**
		OM2	OM3	OM4
Specification				
Core diameter µm		50±2,5	50±2,5	50±2,5
Cladding diameter µm		125±2	125±2	125±2
Fibre diameter µm		245±10	245±10	245±10
Attenuation dB/km	at 850 nm	≤ 2,5	≤ 2,5	≤ 2,5
	at 1300 nm	≤ 0,7	≤ 0,7	≤ 0,7
Bandwidth MHz x km	at 850 nm	≥ 500	≥ 1500	≥ 3500
	at 1300 nm	≥ 500	≥ 500	≥ 500
Effective modal bandwidth MHz x km	at 850 nm	not specified	≥ 2000	≥ 4700
System range (at 10 Gb/s) m	at 850 nm	not specified	300	550
	at 1300 nm	not specified	300	300

Edition: 10/2013

BayCom® / BayCom★ FO cable - light outdoor cable

A-DQ(ZN)2Y 1x...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, central loose tube, light outdoor cable, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable without rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Light outdoor cable

- Easy installation with tight bending radii and easy installation by an optimised cable design with small outer diameter.
  The cable is suitable for installation outdoors, in trays and ducts, on cable trays and pipes. For direct laying in earth and large mechanical loads, additional protective measures must be provided.

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 1 rip cord facilitates installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y 1x12 E9/125
- A-DQ(ZN)2Y 1x12 E9/125 G.652.D BayCom*

Edition: 04/2014

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BayCom® / BayCom★ FO cable - light outdoor cable

A-DQ(ZN)2Y 1x...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, central loose tube, light outdoor cable according, to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm	Fire load MJ/m
A-DQ(ZN)2Y	1x 2 E9/125	(ZB)	5800601	2	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x 4 E9/125	(ZB)	5800611	4	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x 6 E9/125	(ZB)	5800621	6	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x 8 E9/125	(ZB)	5800631	8	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x10 E9/125	(ZB)	5800641	10	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x12 E9/125	(ZB)	5800651	12	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x16 E9/125	(ZB)	5800661	16	8	40	150	110 150	1,5
A-DQ(ZN)2Y	1x24 E9/125	(ZB)	5800671	24	8	40	150	110 150	1,5

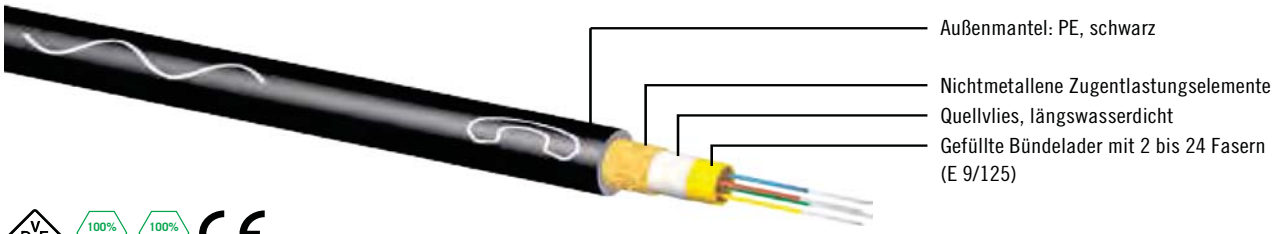
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

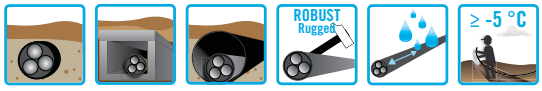
Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y 1x...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, central loose tube, direct burial, according to DIN VDE and Bayka factory standard





Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable without rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 1 rip cord facilitates installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y 1x12 E9/125
- A-DQ(ZN)2Y 1x12 E9/125 G.652.D BayCom*

Edition: 04/2014

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BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y 1x...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, central loose tube, direct burial, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)2Y	1x 2 E9/125	(ZB)	5800600	2	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x 4 E9/125	(ZB)	5800610	4	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x 6 E9/125	(ZB)	5800620	6	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x 8 E9/125	(ZB)	5800630	8	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x10 E9/125	(ZB)	5800640	10	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x12 E9/125	(ZB)	5800650	12	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x16 E9/125	(ZB)	5800660	16	10	65	150	140	180	2,6
A-DQ(ZN)2Y	1x24 E9/125	(ZB)	5800670	24	10	65	150	140	180	2,6

The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable, optimised for blowing

A-DQ(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard

Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable without rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Light outdoor cable (optimised for blowing):

- Cable design, wall thicknesses and selected materials with optimised flexibility allow large blow in. Special HDPE compounds are insensitive to pressure and guarantee a rugged Cable design in BayCom quality.
  The cable is also suitable for installation outdoors, in trays and ducts, on cable trays and tubes. For direct laying in earth and large mechanical loads, additional protective measures must be provided.

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y 12x12 E9/125
- A-DQ(ZN)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable, optimised for blowing

A-DQ(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)2Y	1x 2 E9/125	(VS)	5800011	2	10	65	150	140	190	2,6
A-DQ(ZN)2Y	2x 2 E9/125		5800021	4	10	65	150	140	190	2,6
A-DQ(ZN)2Y	4x 2 E9/125		5800031	8	10	65	150	140	190	2,5
A-DQ(ZN)2Y	6x 2 E9/125		5800041	12	10	75	150	150	200	2,5
A-DQ(ZN)2Y	6x 4 E9/125		5800051	24	10	75	150	150	200	2,7
A-DQ(ZN)2Y	6x 6 E9/125		5800061	36	10	75	150	150	200	2,7
A-DQ(ZN)2Y	4x12 E9/125		5800071	48	11	80	150	160	210	2,9
A-DQ(ZN)2Y	5x12 E9/125		5800081	60	11	80	150	160	210	2,9
A-DQ(ZN)2Y	6x12 E9/125		5800091	72	11	90	150	170	220	3,3
A-DQ(ZN)2Y	8x12 E9/125		5800101	96	13	110	150	190	250	4,1
A-DQ(ZN)2Y	10x12 E9/125		5800111	120	14	140	150	210	270	5,2
A-DQ(ZN)2Y	12x12 E9/125		5800121	144	16	170	200	230	300	6,4
A-DQ(ZN)2Y	16x12 E9/125		5800131	192	18	230	250	270	360	9,1
A-DQ(ZN)2Y	24x12 E9/125		5800141	288	18	220	250	270	360	7,6

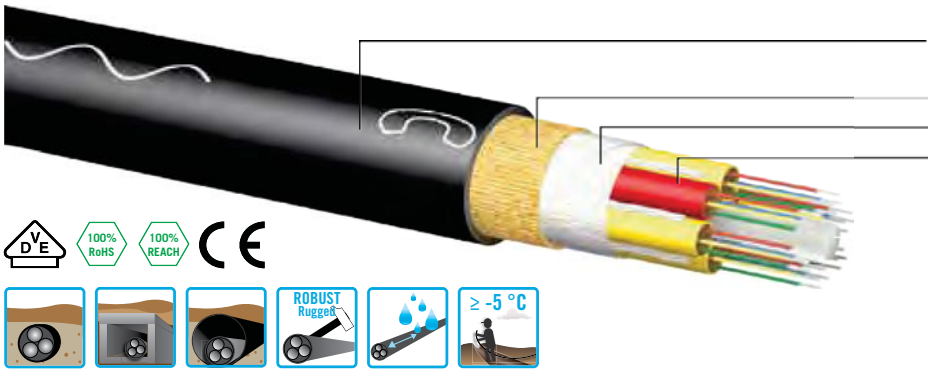
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable without rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y 12x12 E9/125
- A-DQ(ZN)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)2Y	1x 2 E9/125	(VS)	5800010	2	11	85	150	170	220	3,7
A-DQ(ZN)2Y	2x 2 E9/125		5800020	4	11	85	150	170	220	3,6
A-DQ(ZN)2Y	4x 2 E9/125		5800030	8	11	85	150	170	220	3,6
A-DQ(ZN)2Y	6x 2 E9/125		5800040	12	12	95	150	180	230	3,9
A-DQ(ZN)2Y	6x 4 E9/125		5800050	24	12	100	150	180	230	3,9
A-DQ(ZN)2Y	6x 6 E9/125		5800060	36	12	100	150	180	230	3,9
A-DQ(ZN)2Y	4x12 E9/125		5800070	48	12	100	150	180	240	4,1
A-DQ(ZN)2Y	5x12 E9/125		5800080	60	12	100	150	180	240	4,1
A-DQ(ZN)2Y	6x12 E9/125		5800090	72	13	115	200	190	250	4,5
A-DQ(ZN)2Y	10x12 E9/125		5800110	120	16	170	300	230	300	6,7
A-DQ(ZN)2Y	12x12 E9/125		5800120	144	17	205	350	250	330	8,1
A-DQ(ZN)2Y	16x12 E9/125		5800130	192	20	275	400	290	390	11
A-DQ(ZN)2Y	24x12 E9/125		5800140	288	20	260	400	290	390	9,5

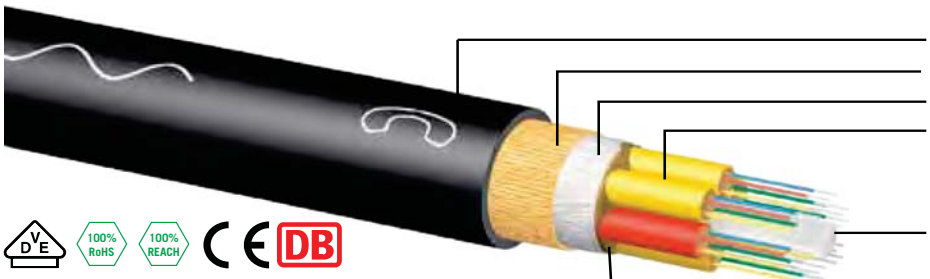
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - acc. to DB AG

A-DF(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, acc. to Deutsche Bahn AG



Standards

acc. to Dlk 1.011.003y
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Type of fibre	E9/125
Field diameter µm	9-10
Cladding diameter µm	125
Attenuation dB/km	
at 1310 nm	≤ 0,36
at 1550 nm	≤ 0,23
Chromatic dispersion ps/[nm x km]	
at 1310 +30/-15 nm	≤ 3,5
at 1550 +30/-70 nm	≤ 18
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

The FO outdoor cable according to this standard can be laid

- in the ground by pulling or blowing into a previously installed HDPE pipe or

- in trays along railway lines.

Use, planning and laying shall be carried out according to the applicable guidelines of the DB AG. The cables are approved for use in the DB network.

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)2Y 12x12 E9/125 0,36F3,5 / 0,23H18

DB vendor no. 00105422,
Framework contract no. 1000/393/92194647

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BayCom® / BayCom★ FO cable - acc. to DB AG

A-DF(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, acc. to Deutsche Bahn AG

Product		Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm
A-DF(ZN)2Y	6x 2 E9/125	5923500	12	12	95	250	300 400
A-DF(ZN)2Y	6x 4 E9/125	5923700	24	12	95	250	300 400
A-DF(ZN)2Y	4x12 E9/125	5924230	48	13	120	250	330 450
A-DF(ZN)2Y	5x12 E9/125	5962300	60	13	120	250	330 450
A-DF(ZN)2Y	6x12 E9/125	5923100	72	14	140	250	350 450
A-DF(ZN)2Y	7x12 E9/125	5932820	84	15	155	250	350 450
A-DF(ZN)2Y	8x12 E9/125	5932810	96	16	170	250	350 450
A-DF(ZN)2Y	12x12 E9/125	5923900	144	19	260	350	400 500
A-DF(ZN)2Y	16x12 E9/125	5932930	192	23	360	450	450 600

Die Artikelnummern in der Tabelle gelten für Fasern acc. to 1.011.003y.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
Der Biegeradius einm. gilt statisch beim Ausformen des Kabels, der Biegeradius mehrm. gilt dynamisch, z. B. während der Verlegung.
Weitere Ausführungen, Passlängen und größere Lieferlängen auf Anfrage.

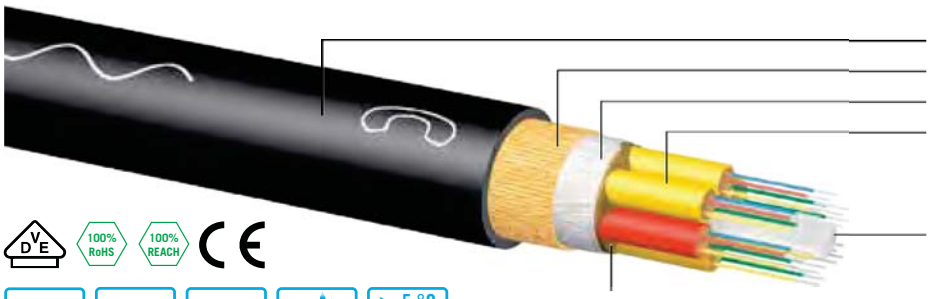
DB vendor no. 00105422, Framework contract no. 1000/393/92194647

Edition: 04/2014

BayCom® / BayCom★ FO cable, optimised for blowing

A-DF(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard



Outer sheath: PE, black
Non metallic strain bearing elements
Swelling fleece
Unit cores with 2 up to 12 fibres
(E9/125, G50/125 or G62,5/125)
(pilot bundle red, other bundles yellow)
Central non metallic support element
Core assembly filled, longitudinal watertight

Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable without rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Light outdoor cable (optimised for blowing):

- Cable design, wall thicknesses and selected materials with optimised flexibility allow large blow in. Special HDPE compounds are insensitive to pressure and guarantee a rugged Cable design in BayCom quality.
  The cable is also suitable for installation outdoors, in trays and ducts, on cable trays and tubes. For direct laying in earth and large mechanical loads, additional protective measures must be provided.

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)2Y 12x12 E9/125
- A-DF(ZN)2Y 12x12 E9/125 G.652.D BayCom*

Edition: 04/2014

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BayCom® / BayCom★ FO cable, optimised for blowing

A-DF(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DF(ZN)2Y	1x 2 E9/125	(VS)	5801011	2	10	65	150	140	190	2,6
A-DF(ZN)2Y	2x 2 E9/125		5801021	4	10	65	150	140	190	2,6
A-DF(ZN)2Y	4x 2 E9/125		5801031	8	10	65	150	140	190	2,6
A-DF(ZN)2Y	6x 2 E9/125		5801041	12	10	75	150	150	200	2,9
A-DF(ZN)2Y	6x 4 E9/125		5801051	24	10	75	150	150	200	2,9
A-DF(ZN)2Y	6x 6 E9/125		5801061	36	10	75	150	150	200	2,8
A-DF(ZN)2Y	4x12 E9/125		5801071	48	11	80	150	160	210	3
A-DF(ZN)2Y	5x12 E9/125		5801081	60	11	80	150	160	210	2,9
A-DF(ZN)2Y	6x12 E9/125		5801091	72	11	90	150	170	220	3,4
A-DF(ZN)2Y	8x12 E9/125		5801101	96	13	115	150	190	250	4,2
A-DF(ZN)2Y	10x12 E9/125		5801111	120	14	140	150	210	270	5,3
A-DF(ZN)2Y	12x12 E9/125		5801121	144	16	175	200	230	300	6,6
A-DF(ZN)2Y	16x12 E9/125		5801131	192	18	240	250	270	360	9,3
A-DF(ZN)2Y	24x12 E9/125		5801141	288	18	245	250	270	360	8,3

The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DF(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard

Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable without rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)2Y 12x12 E9/125
- A-DF(ZN)2Y 12x12 E9/125 G.652.D BayCom*

Edition: 04/2014

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BayCom® / BayCom★ FO cable - direct burial

A-DF(ZN)2Y nx...

FO outdoor cable, metal-free, without armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DF(ZN)2Y	1x 2 E9/125	(VS)	5801010	2	11	85	150	170	220	3,7
A-DF(ZN)2Y	2x 2 E9/125		5801020	4	11	85	150	170	220	3,7
A-DF(ZN)2Y	6x 2 E9/125		5801040	12	12	100	150	180	230	4
A-DF(ZN)2Y	6x 4 E9/125		5801050	24	12	100	150	180	230	4
A-DF(ZN)2Y	6x 6 E9/125		5801060	36	12	100	150	180	230	4
A-DF(ZN)2Y	4x12 E9/125		5801070	48	12	105	200	180	240	4,1
A-DF(ZN)2Y	5x12 E9/125		5801080	60	12	105	200	180	240	4,1
A-DF(ZN)2Y	6x12 E9/125		5801090	72	13	115	200	190	250	4,6
A-DF(ZN)2Y	8x12 E9/125		5801100	96	14	140	250	210	280	5,5
A-DF(ZN)2Y	10x12 E9/125		5801110	120	16	175	300	230	300	6,8
A-DF(ZN)2Y	12x12 E9/125		5801120	144	17	210	350	250	330	8,2
A-DF(ZN)2Y	16x12 E9/125		5801130	192	20	280	400	290	390	11,2
A-DF(ZN)2Y	24x12 E9/125		5801140	288	20	275	400	290	390	10,3
A-DF(ZN)2Y	24x12 E9/125		5801140	288	20	275	400	290	390	10,3

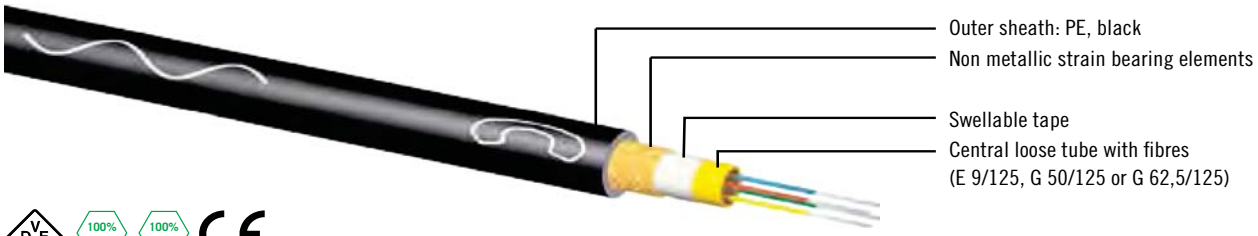
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - light outdoor cable

A-DQ(ZN)b2Y 1x...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, central loose tube, light outdoor cable, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Light outdoor cable (optimised for blowing):

- Cable design, wall thicknesses and selected materials with optimised flexibility allow large blow in. Special HDPE compounds are insensitive to pressure and guarantee a rugged Cable design in BayCom quality.
  The cable is also suitable for installation outdoors, in trays and ducts, on cable trays and tubes. For direct laying in earth and large mechanical loads, additional protective measures must be provided.

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 1 rip cord facilitates installation.

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)b2Y 1x12 E9/125
- A-DQ(ZN)b2Y 1x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - light outdoor cable

A-DQ(ZN)b2Y 1x...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, central loose tube, light outdoor cable, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)b2Y	1x 2 E9/125	(ZB)	5800701	2	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x 4 E9/125	(ZB)	5800711	4	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x 6 E9/125	(ZB)	5800331	6	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x 8 E9/125	(ZB)	5800381	8	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x10 E9/125	(ZB)	5800721	10	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x12 E9/125	(ZB)	5800201	12	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x16 E9/125	(ZB)	5800731	16	8	45	150	110	150	1,6
A-DQ(ZN)b2Y	1x24 E9/125	(ZB)	5800741	24	8	45	150	110	150	1,6

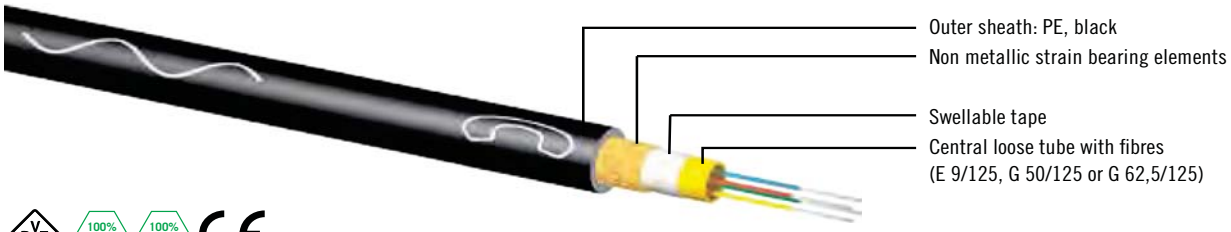
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)b2Y 1x...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, central loose tube, direct burial, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with non-metallic rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 1 rip cord facilitates installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)b2Y 1x12 E9/125
- A-DQ(ZN)b2Y 1x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)b2Y 1x...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, central loose tube, direct burial, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)b2Y	1x 2 E9/125	(ZB)	5800700	2	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x 4 E9/125	(ZB)	5800710	4	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x 6 E9/125	(ZB)	5800330	6	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x 8 E9/125	(ZB)	5800380	8	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x10 E9/125	(ZB)	5800720	10	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x12 E9/125	(ZB)	5800200	12	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x16 E9/125	(ZB)	5800730	16	9	65	150	140	180	2,5
A-DQ(ZN)b2Y	1x24 E9/125	(ZB)	5800740	24	9	65	150	140	180	2,5

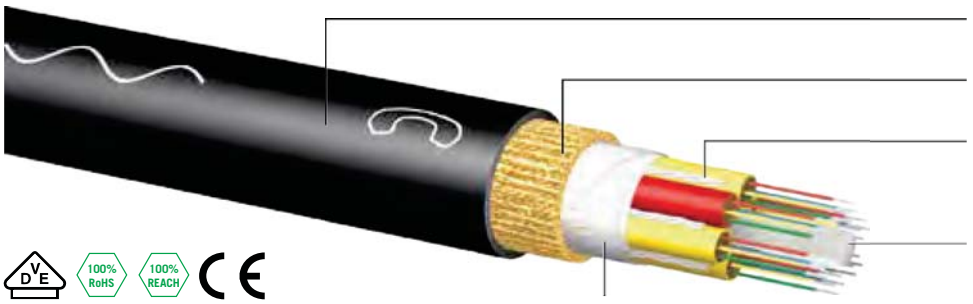
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable, optimised for blowing

A-DQ(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Light outdoor cable (optimised for blowing):

- Cable design, wall thicknesses and selected materials with optimised flexibility allow large blow in. Special HDPE compounds are insensitive to pressure and guarantee a rugged Cable design in BayCom quality.
  The cable is also suitable for installation outdoors, in trays and ducts, on cable trays and tubes. For direct laying in earth and large mechanical loads, additional protective measures must be provided.

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)b2Y 12x12 E9/125
- A-DQ(ZN)b2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable, optimised for blowing

A-DQ(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)b2Y	1x 2 E9/125	(VS)	5800411	2	10	70	250	150	190	2,6
A-DQ(ZN)b2Y	2x 2 E9/125		5800421	4	10	70	250	150	190	2,6
A-DQ(ZN)b2Y	4x 2 E9/125		5800431	8	10	70	250	150	190	2,6
A-DQ(ZN)b2Y	1x12 E9/125	(VS)	5800191	12	11	85	250	160	210	3,1
A-DQ(ZN)b2Y	6x 2 E9/125		5800441	12	11	80	250	160	210	2,9
A-DQ(ZN)b2Y	2x12 E9/125		5800241	24	11	85	250	160	210	3,1
A-DQ(ZN)b2Y	6x 4 E9/125		5800251	24	11	80	250	160	210	2,8
A-DQ(ZN)b2Y	3x12 E9/125		5800237	36	11	85	250	160	210	3
A-DQ(ZN)b2Y	6x 6 E9/125		5800451	36	11	80	250	160	210	2,9
A-DQ(ZN)b2Y	4x12 E9/125		5800211	48	11	85	250	165	220	3
A-DQ(ZN)b2Y	5x12 E9/125		5800281	60	11	85	250	160	210	2,9
A-DQ(ZN)b2Y	6x12 E9/125		5800461	72	12	100	250	170	220	3,4
A-DQ(ZN)b2Y	8x12 E9/125		5800471	96	13	120	250	190	250	4,2
A-DQ(ZN)b2Y	10x12 E9/125		5800481	120	14	150	250	210	280	5,2
A-DQ(ZN)b2Y	12x12 E9/125		5800291	144	16	185	300	230	310	6,3
A-DQ(ZN)b2Y	16x12 E9/125		5800491	192	19	255	400	270	360	9,1
A-DQ(ZN)b2Y	24x12 E9/125		5800501	288	18	240	400	270	360	7,6

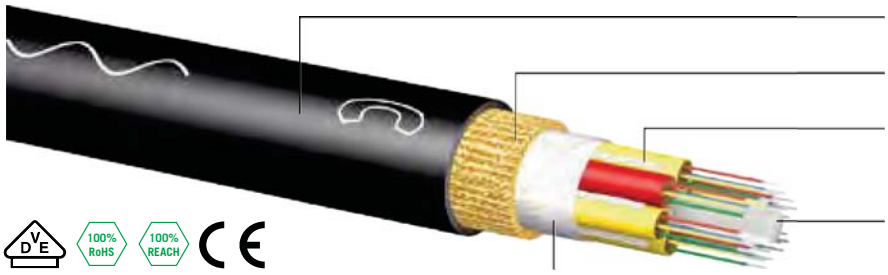
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with non-metallic rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial)

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)b2Y 12x12 E9/125
- A-DQ(ZN)b2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)b2Y	1x 2 E9/125	(VS)	5800410	2	12	90	250	170	220	3,7
A-DQ(ZN)b2Y	2x 2 E9/125		5800420	4	12	90	250	170	220	3,7
A-DQ(ZN)b2Y	4x 2 E9/125		5800430	8	12	90	250	170	220	3,6
A-DQ(ZN)b2Y	6x 2 E9/125		5800440	12	12	105	250	180	240	4
A-DQ(ZN)b2Y	6x 4 E9/125		5800250	24	12	105	250	180	240	4
A-DQ(ZN)b2Y	6x 6 E9/125		5800450	36	12	105	250	180	240	4
A-DQ(ZN)b2Y	4x12 E9/125		5800210	48	12	110	250	180	240	4,1
A-DQ(ZN)b2Y	5x12 E9/125		5800280	60	12	110	250	180	240	4,1
A-DQ(ZN)b2Y	6x12 E9/125		5800460	72	13	125	250	190	250	4,6
A-DQ(ZN)b2Y	8x12 E9/125		5800470	96	14	150	250	210	280	5,5
A-DQ(ZN)b2Y	10x12 E9/125		5800480	120	16	185	300	230	310	6,8
A-DQ(ZN)b2Y	12x12 E9/125		5800290	144	17	220	350	260	340	7,9
A-DQ(ZN)b2Y	16x12 E9/125		5800490	192	20	295	500	300	390	11,1
A-DQ(ZN)b2Y	24x12 E9/125		5800500	288	20	280	500	300	390	9,6

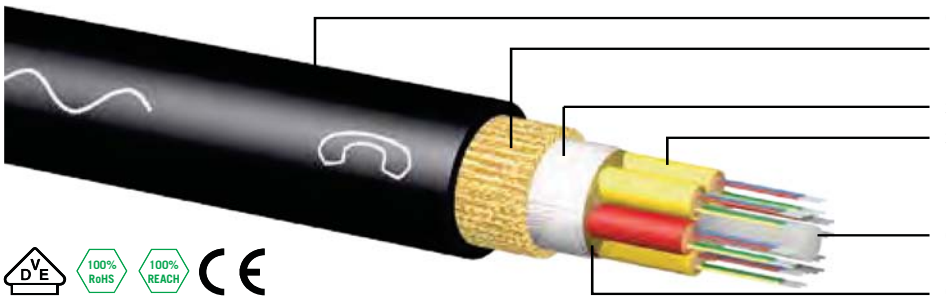
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable, optimised for blowing

A-DF(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with non-metallic rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Light outdoor cable (optimised for blowing):

- Cable design, wall thicknesses and selected materials with optimised flexibility allow large blow in. Special HDPE compounds are insensitive to pressure and guarantee a rugged Cable design in BayCom quality.
  The cable is also suitable for installation outdoor, in trays and ducts and tubes. For direct laying in earth and large mechanical loads, additional protective measures must be provided.

  For this FO cable acc. to the factory standard BayCom LWL01 applies:
- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)b2Y 1x12 E9/125
- A-DF(ZN)b2Y 1x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable, optimised for blowing

A-DF(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, optimised for blowing, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DF(ZN)b2Y	1x 2 E9/125	(VS)	5801211	2	10	70	250	150	190	2,7
A-DF(ZN)b2Y	2x 2 E9/125		5801221	4	10	65	250	140	190	2,6
A-DF(ZN)b2Y	4x 2 E9/125		5801231	8	10	70	250	140	190	2,6
A-DF(ZN)b2Y	6x 2 E9/125		5801241	12	11	80	250	160	210	2,9
A-DF(ZN)b2Y	6x 4 E9/125		5801251	24	11	80	250	160	210	2,9
A-DF(ZN)b2Y	6x 6 E9/125		5801261	36	11	80	250	160	210	2,9
A-DF(ZN)b2Y	4x12 E9/125		5801271	48	11	85	250	160	210	3
A-DF(ZN)b2Y	5x12 E9/125		5801281	60	11	85	250	160	210	3
A-DF(ZN)b2Y	6x12 E9/125		5801291	72	12	100	250	170	220	3,4
A-DF(ZN)b2Y	8x12 E9/125		5801301	96	13	125	250	190	250	4,2
A-DF(ZN)b2Y	10x12 E9/125		5801311	120	14	155	250	210	280	5,4
A-DF(ZN)b2Y	12x12 E9/125		5801321	144	16	190	300	230	310	6,6
A-DF(ZN)b2Y	16x12 E9/125		5801331	192	19	260	400	270	360	9,3
A-DF(ZN)b2Y	24x12 E9/125		5801341	288	18	260	400	270	360	8,4

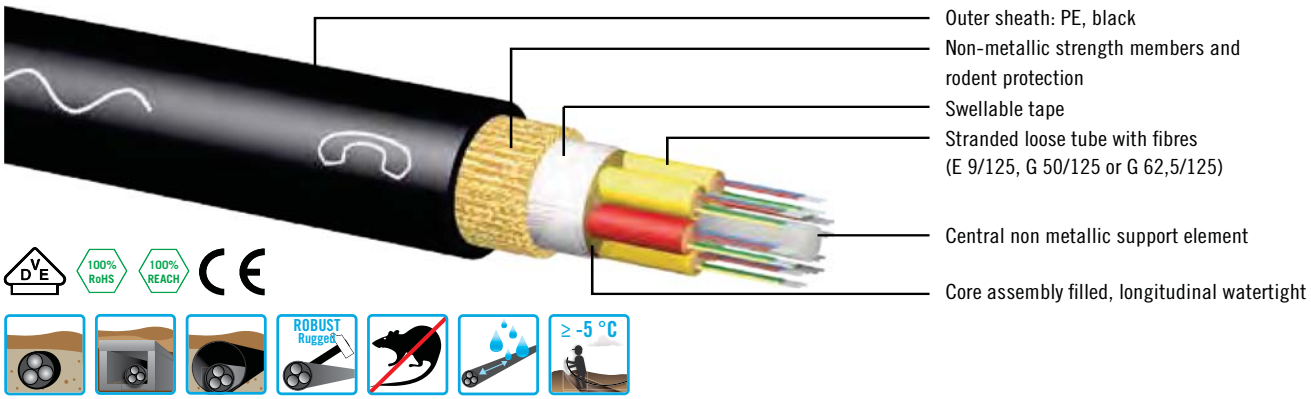
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DF(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with rodent protection, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)b2Y 1x12 E9/125
- A-DF(ZN)b2Y 1x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DF(ZN)b2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, longitudinally watertight, stranded loose tube, direct burial, according to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DF(ZN)b2Y	1x 2 E9/125	(VS)	5801210	2	12	95	250	170	220	3,7
A-DF(ZN)b2Y	2x 2 E9/125		5801220	4	12	90	250	170	220	3,7
A-DF(ZN)b2Y	4x 2 E9/125		5801230	8	12	95	250	170	220	3,7
A-DF(ZN)b2Y	6x 2 E9/125		5801240	12	12	105	250	180	240	4
A-DF(ZN)b2Y	6x 4 E9/125		5801250	24	12	105	250	180	240	4
A-DF(ZN)b2Y	6x 6 E9/125		5801260	36	12	105	250	180	240	4
A-DF(ZN)b2Y	4x12 E9/125		5801270	48	12	110	250	180	240	4,3
A-DF(ZN)b2Y	5x12 E9/125		5801280	60	12	115	250	180	240	4,1
A-DF(ZN)b2Y	6x12 E9/125		5801290	72	13	125	250	190	250	4,6
A-DF(ZN)b2Y	8x12 E9/125		5801300	96	14	150	250	210	280	5,6
A-DF(ZN)b2Y	10x12 E9/125		5801310	120	16	185	300	230	310	6,9
A-DF(ZN)b2Y	12x12 E9/125		5801320	144	17	225	350	260	340	8,3
A-DF(ZN)b2Y	16x12 E9/125		5801330	192	20	300	450	300	390	11,3
A-DF(ZN)b2Y	24x12 E9/125		5801340	288	20	300	450	300	390	10,3

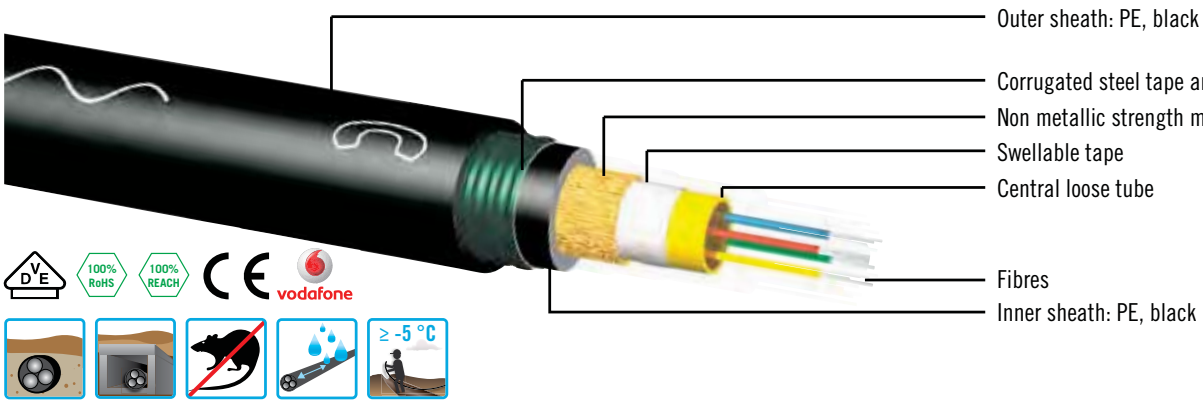
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - acc. to Vodafone GmbH

A-DQ(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, central tube, acc. to Vodafone GmbH



Standards

acc. to Vodafone/Arcor TNP01
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Type of fibre	E9/125
Field diameter µm	9-10
Cladding diameter µm	125
Attenuation dB/km	
at 1310 nm	≤ 0,36
at 1550 nm	≤ 0,23
Chromatic dispersion ps/[nm x km]	
at 1310 +30/-15 nm	≤ 3,5
at 1550 +30/-70 nm	≤ 18
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

The fibre optic cables are designed for outdoor use for direct burial and tray installation according to Vodafone company standard.

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
2Y	inner sheath made of polyethylene, PE
(SR)	corrugated steel tape armouring
2Y	outer sheath made of polyethylene, PE
LG	stranded in layers

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y(SR)2Y 1x12 E9/125 0,36F3,5 / 0,23H18 LG

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BayCom® / BayCom★ FO cable - acc. to Vodafone GmbH

A-DQ(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, central tube, acc. to Vodafone GmbH

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm	
A-DQ(ZN)2Y(SR)2Y	1x 8 E9/125	(1500 N / ZB)	5950401	8	12	135	150	180	300
A-DQ(ZN)2Y(SR)2Y	1x12 E9/125	(1500 N / ZB)	5928000	12	12	135	150	180	300

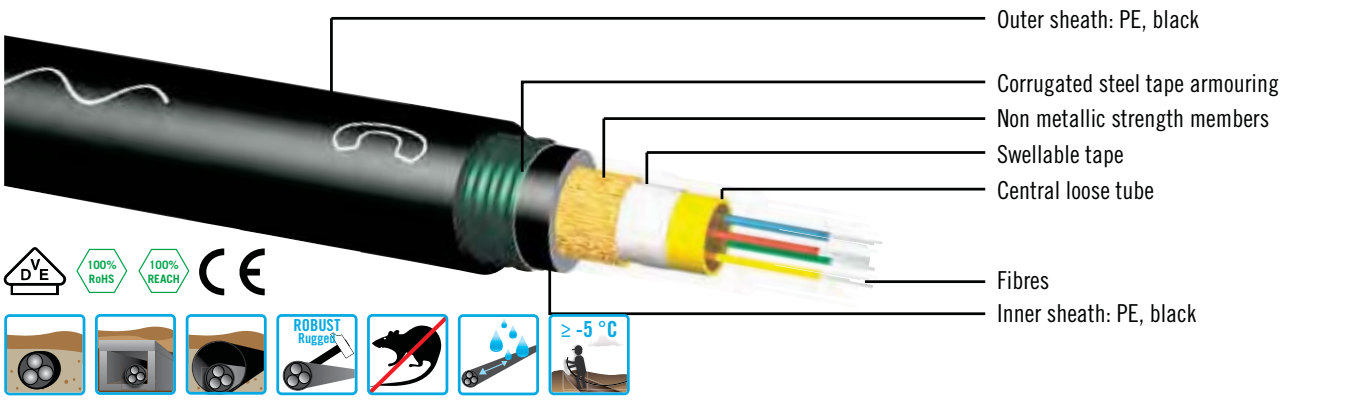
Die Artikelnummern in der Tabelle gelten für Fasern nach Vodafone/Arcor TNP01.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
Der Biegeradius einm. gilt statisch beim Ausformen des Kabels, der Biegeradius mehrm. gilt dynamisch, z. B. während der Verlegung.
Weitere Ausführungen, Passlängen und größere Lieferlängen auf Anfrage.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, central tube, direct burial, acc. to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with metallic rodent protection (steel tape armouring), as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 1 rip cord facilitates installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

Außenkabel

D	loose tube, filled
Q	cable core with swellable tape - water-tight
(ZN)	non-metallic strength members
2Y	inner sheath made of polyethylene, PE
(SR)	corrugated steel tape armouring
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y(SR)2Y 1x12 E9/125
- A-DQ(ZN)2Y(SR)2Y 1x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, central tube, direct burial, acc. to DIN VDE und Bayka Werksnorm

Product		Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DQ(ZN)2Y(SR)2Y 1x 2 E9/125	(ZB)	5830011	2	12	135	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x 4 E9/125	(ZB)	5830021	4	12	135	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x 6 E9/125	(ZB)	5830031	6	12	135	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x 8 E9/125	(ZB)	5830041	8	12	135	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x10 E9/125	(ZB)	5830051	10	12	135	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x12 E9/125	(ZB)	5830061	12	12	140	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x16 E9/125	(ZB)	5830071	16	12	135	200	180	240	3,6
A-DQ(ZN)2Y(SR)2Y 1x24 E9/125	(ZB)	5830081	24	12	135	200	180	240	3,6

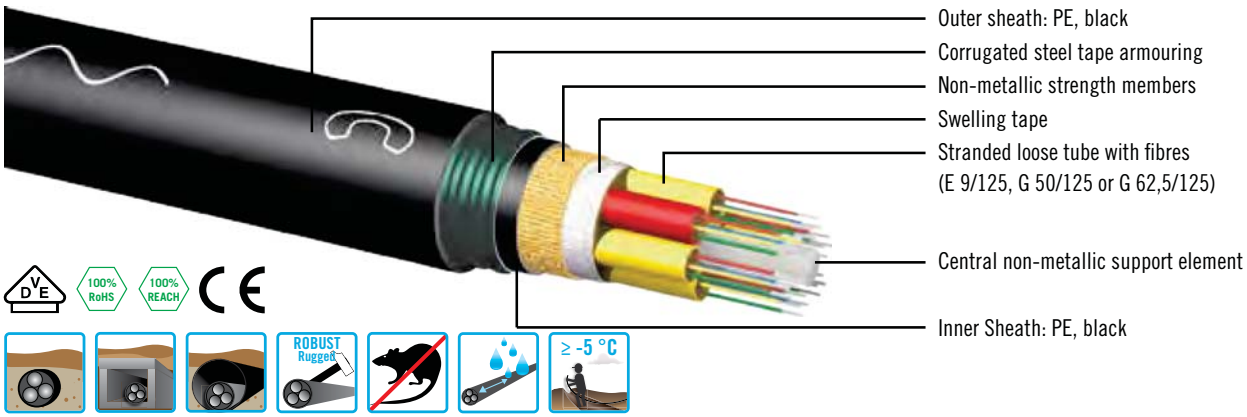
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with metallic rodent protection (steel tape armouring), as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables:

- Improved optical properties compared to standard fibres

Type Designation Codes

Außenkabel

D	loose tube, filled
Q	cable core with swellable tape - water-tight
(ZN)	non-metallic strength members
2Y	inner sheath made of polyethylene, PE
(SR)	corrugated steel tape armouring
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y(SR)2Y 12x12 E9/125
- A-DQ(ZN)2Y(SR)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DQ(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard

Product	Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm	Fire load MJ/m
A-DQ(ZN)2Y(SR)2Y 1x 2 E9/125 (VS)	5830210	2	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 2x 2 E9/125	5830220	4	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 4x 2 E9/125	5830230	8	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 6x 2 E9/125	5830240	12	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 6x 4 E9/125	5830250	24	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 6x 6 E9/125	5830260	36	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 4x12 E9/125	5830270	48	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 5x12 E9/125	5830280	60	16	210	300	230 310	6,2
A-DQ(ZN)2Y(SR)2Y 8x12 E9/125	5830300	96	18	260	400	260 350	7,6
A-DQ(ZN)2Y(SR)2Y 12x12 E9/125	5830320	144	21	370	550	320 420	8,1

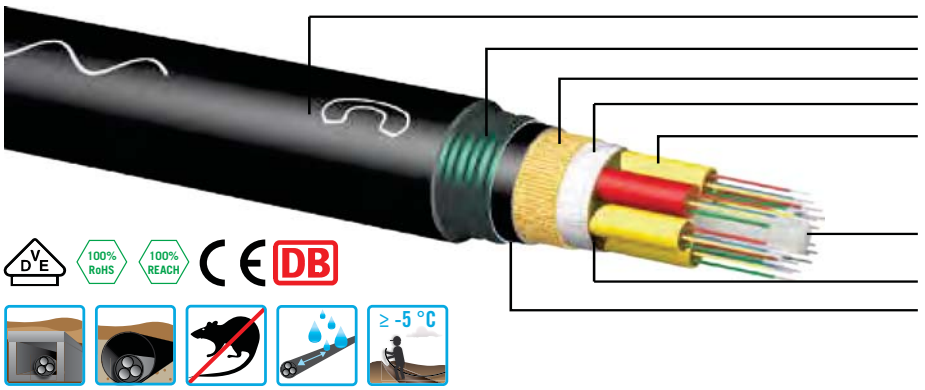
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - acc. to DB AG

A-DF(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, stranded loose tube, acc. to Deutsche Bahn AG



Standards

acc. to 1.011.003y
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Type of fibre	E9/125
Field diameter µm	9-10
Cladding diameter µm	125
Attenuation dB/km	
at 1310 nm	≤ 0,36
at 1550 nm	≤ 0,23
Chromatic dispersion ps/[nm x km]	
at 1310 +30/-15 nm	≤ 3,5
at 1550 +30/-70 nm	≤ 18
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

The FO outdoor cable according to this standard can be laid

- in the ground by pulling or blowing into a previously installed HDPE pipe or

- in trays along railway lines.

Use, planning and laying shall be carried out according to the applicable guidelines of the DB AG. The cables are approved for use in the DB network.

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
2Y	inner sheath made of polyethylene, PE
(SR)	corrugated steel tape armouring
2Y	outer sheath made of polyethylene, PE
LG	stranded in layers

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)2Y(SR)2Y 12x12 E9/125 0,36F3,5 / 0,23H18 LG

DB vendor no. 00105422,
Framework contract no. 1000/393/92194647

Edition: 04/2014

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BayCom® / BayCom★ FO cable - acc. to DB AG

A-DF(ZN)2Y(SR)2Y nx...

FO outdoor cable, with metallic armouring, longitudinally watertight, stranded loose tube, acc. to Deutsche Bahn AG

Product	Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm
A-DF(ZN)2Y(SR)2Y 6x 2 E9/125	5924110	12	15	205	250	300 400
A-DF(ZN)2Y(SR)2Y 6x 4 E9/125	5924120	24	15	205	250	300 400
A-DF(ZN)2Y(SR)2Y 4x12 E9/125	5931510	48	17	260	250	330 450
A-DF(ZN)2Y(SR)2Y 5x12 E9/125	5924900	60	17	260	250	330 450
A-DF(ZN)2Y(SR)2Y 6x12 E9/125	5924140	72	18	290	250	350 450
A-DF(ZN)2Y(SR)2Y 7x12 E9/125	5924940	84	18	290	250	350 450
A-DF(ZN)2Y(SR)2Y 8x12 E9/125	5924930	96	21	375	250	350 450
A-DF(ZN)2Y(SR)2Y 12x12 E9/125	5924910	144	24	460	350	400 500

Die Artikelnummern in der Tabelle gelten für Fasern acc. to 1.011.003y.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
Der Biegeradius einm. gilt statisch beim Ausformen des Kabels, der Biegeradius mehrm. gilt dynamisch, z. B. während der Verlegung.
Weitere Ausführungen, Passlängen und größere Lieferlängen auf Anfrage.

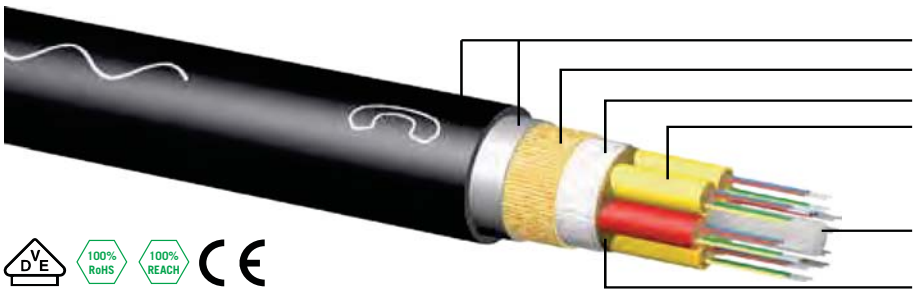
DB vendor no. 00105422, Framework contract no. 1000/393/92194647

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DF(ZN)(L)2Y nx...

FO outdoor cable, with Al-laminated sheath, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with Al-laminated sheath, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
(L)2Y	Al-laminated sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DF(ZN)(L)2Y 12x12 E9/125
- A-DF(ZN)(L)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DF(ZN)(L)2Y nx...

FO outdoor cable, with Al-laminated sheath, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DF(ZN)(L)2Y	1x 2 E9/125	(VS)	5801510	2	12	100	150	180	230	3,7
A-DF(ZN)(L)2Y	2x 2 E9/125		5801520	4	12	105	150	180	230	3,7
A-DF(ZN)(L)2Y	4x 2 E9/125		5801530	8	12	105	150	180	230	3,6
A-DF(ZN)(L)2Y	6x 2 E9/125		5801540	12	13	115	200	180	240	4
A-DF(ZN)(L)2Y	6x 4 E9/125		5801550	24	13	115	200	180	240	4,1
A-DF(ZN)(L)2Y	6x 6 E9/125		5801560	36	13	115	200	180	240	4,1
A-DF(ZN)(L)2Y	4x12 E9/125		5801570	48	13	120	200	190	250	4,3
A-DF(ZN)(L)2Y	5x12 E9/125		5801580	60	13	120	200	190	250	4,1
A-DF(ZN)(L)2Y	6x12 E9/125		5801590	72	13	135	200	200	260	4,7
A-DF(ZN)(L)2Y	8x12 E9/125		5801600	96	15	165	250	220	290	5,7
A-DF(ZN)(L)2Y	12x12 E9/125		5801620	144	18	235	350	260	350	8,4
A-DF(ZN)(L)2Y	16x12 E9/125		5801630	192	20	315	450	300	400	11,4
A-DF(ZN)(L)2Y	24x12 E9/125		5801640	288	20	315	450	300	400	10,4

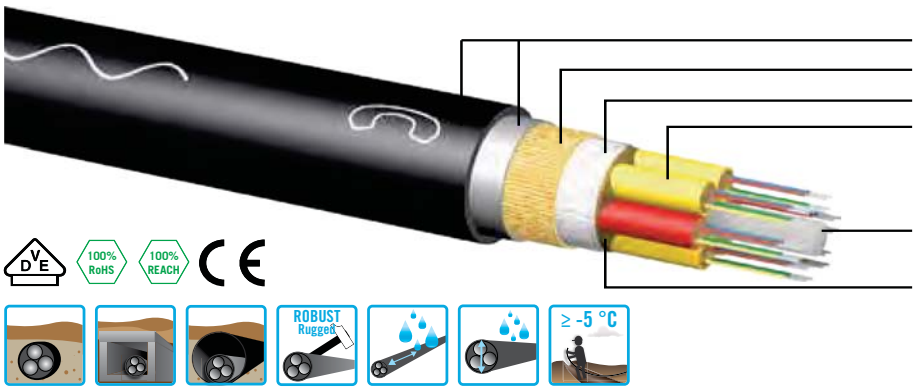
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DOF(ZN)(L)2Y nx...

FO outdoor cable, with Al-laminated sheath, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with Al-laminated sheath, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
OF	cable core filled with special jelly - longitudinally watertight
(ZN)	non-metallic strength members
(L)2Y	Al-laminated sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DOF(ZN)(L)2Y 12x12 E9/125
- A-DOF(ZN)(L)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DOF(ZN)(L)2Y nx...

FO outdoor cable, with Al-laminated sheath, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DOF(ZN)(L)2Y	1x 2 E9/125	(VS)	5801810	2	12	105	150	180	230	3,9
A-DOF(ZN)(L)2Y	2x 2 E9/125		5801820	4	12	105	150	180	230	3,9
A-DOF(ZN)(L)2Y	4x 2 E9/125		5801830	8	12	105	150	180	230	3,9
A-DOF(ZN)(L)2Y	6x 2 E9/125		5801840	12	13	120	200	180	240	4,2
A-DOF(ZN)(L)2Y	6x 4 E9/125		5801850	24	13	120	200	180	240	4,2
A-DOF(ZN)(L)2Y	6x 6 E9/125		5801860	36	13	120	200	180	240	4,2
A-DOF(ZN)(L)2Y	4x12 E9/125		5801870	48	13	125	200	190	250	4,4
A-DOF(ZN)(L)2Y	5x12 E9/125		5801880	60	13	125	200	190	250	4,4
A-DOF(ZN)(L)2Y	6x12 E9/125		5801890	72	13	140	250	200	260	4,9
A-DOF(ZN)(L)2Y	8x12 E9/125		5801900	96	15	175	250	220	290	5,8
A-DOF(ZN)(L)2Y	10x12 E9/125		5801910	120	16	205	300	240	320	7,1
A-DOF(ZN)(L)2Y	12x12 E9/125		5801920	144	18	240	350	260	350	8,5
A-DOF(ZN)(L)2Y	16x12 E9/125		5801930	192	20	320	450	300	400	11,6
A-DOF(ZN)(L)2Y	24x12 E9/125		5801940	288	20	320	450	300	400	10,4

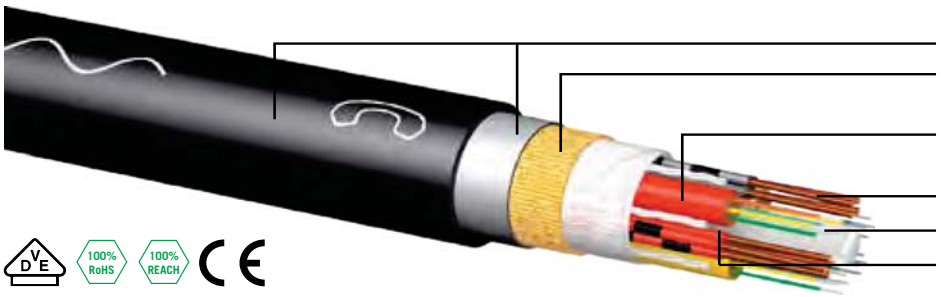
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DSF(ZN)(L)2Y nx... + Cu pairs/quads

FO outdoor cable, with Al-laminated sheath and Cu cores, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304

Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with Al-laminated sheath and copper pairs/quads, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
S	metallic core/pair/quad
F	cable core filled with petrojelly - longitudinally watertight
(ZN)	non-metallic strength members
(L)2Y	Al-laminated sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DSF(ZN)(L)2Y 12x12 E9/125
- A-DSF(ZN)(L)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DSF(ZN)(L)2Y nx... + Cu-Paare/Vierer

FO outdoor cable, with Al-laminated sheath and Cu cores, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DSF(ZN)(L)2Y	1x 2 E9/125	+ CU2Y 1x2x0,6	5831510	2	12	105	150	180	230	3,8
A-DSF(ZN)(L)2Y	2x 2 E9/125	+ CU2Y 1x2x0,6	5831520	4	12	105	150	180	230	3,8
A-DSF(ZN)(L)2Y	4x 2 E9/125	+ CU2Y 1x2x0,6	5831530	8	12	105	150	180	230	3,8
A-DSF(ZN)(L)2Y	6x 2 E9/125	+ CU2Y 1x2x0,6	5831540	12	13	135	200	190	260	4,7
A-DSF(ZN)(L)2Y	6x 4 E9/125	+ CU2Y 1x2x0,6	5831550	24	13	135	200	190	260	4,7
A-DSF(ZN)(L)2Y	6x 6 E9/125	+ CU2Y 1x2x0,6	5831560	36	13	135	200	190	260	4,7
A-DSF(ZN)(L)2Y	4x12 E9/125	+ CU2Y 1x2x0,6	5831570	48	13	125	200	190	250	4,2
A-DSF(ZN)(L)2Y	5x12 E9/125	+ CU2Y 1x2x0,6	5831580	60	13	140	200	200	260	4,7
A-DSF(ZN)(L)2Y	6x12 E9/125	+ CU2Y 1x2x0,6	5831590	72	14	155	250	210	280	5,3

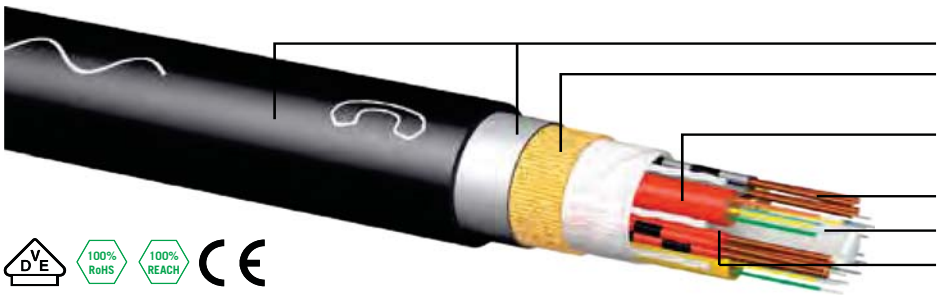
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO cable - direct burial

A-DSOF(ZN)(L)2Y nx... + Cu pairs/quads

FO outdoor cable, with Al-laminated sheath and Cu cores, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

Outdoor cable with Al-laminated sheath and copper pairs/quads, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission in the design:

Rugged outdoor cable (direct burial):

- This cable is optimised for underground layingand complies with the long experience of fibre optic and telecommunication cables laid in the ground (VDE 0888, VDE 0816 and similar).

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report
- 2 rip cords facilitate installation

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
S	metallic core/pair/quad
OF	cable core filled with special jelly - longitudinally watertight
(ZN)	non-metallic strength members
(L)2Y	Al-laminated sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DSOF(ZN)(L)2Y 12x12 E9/125
- A-DSOF(ZN)(L)2Y 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO cable - direct burial

A-DSOF(ZN)(L)2Y nx... + Cu pairs/quads

FO outdoor cable, with Al-laminated sheath and Cu cores, longitudinally and transversally watertight, stranded loose tube, direct burial, acc. to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
A-DSOF(ZN)(L)2Y	1x 2 E9/125	+ CU2Y 1x2x0,6	5831710	2	12	110	150	180	230	3,9
A-DSOF(ZN)(L)2Y	2x 2 E9/125	+ CU2Y 1x2x0,6	5831720	4	12	110	150	180	230	3,9
A-DSOF(ZN)(L)2Y	4x 2 E9/125	+ CU2Y 1x2x0,6	5831730	8	12	110	150	180	230	3,8
A-DSOF(ZN)(L)2Y	6x 2 E9/125	+ CU2Y 1x2x0,6	5831740	12	13	140	200	190	260	4,8
A-DSOF(ZN)(L)2Y	6x 4 E9/125	+ CU2Y 1x2x0,6	5831750	24	13	140	200	190	260	4,8
A-DSOF(ZN)(L)2Y	6x 6 E9/125	+ CU2Y 1x2x0,6	5831760	36	13	140	200	190	260	4,8
A-DSOF(ZN)(L)2Y	4x12 E9/125	+ CU2Y 1x2x0,6	5831770	48	13	130	200	190	250	4,4
A-DSOF(ZN)(L)2Y	5x12 E9/125	+ CU2Y 1x2x0,6	5831780	60	13	145	200	200	260	4,8
A-DSOF(ZN)(L)2Y	6x12 E9/125	+ CU2Y 1x2x0,6	5831790	72	14	160	250	210	280	5,4

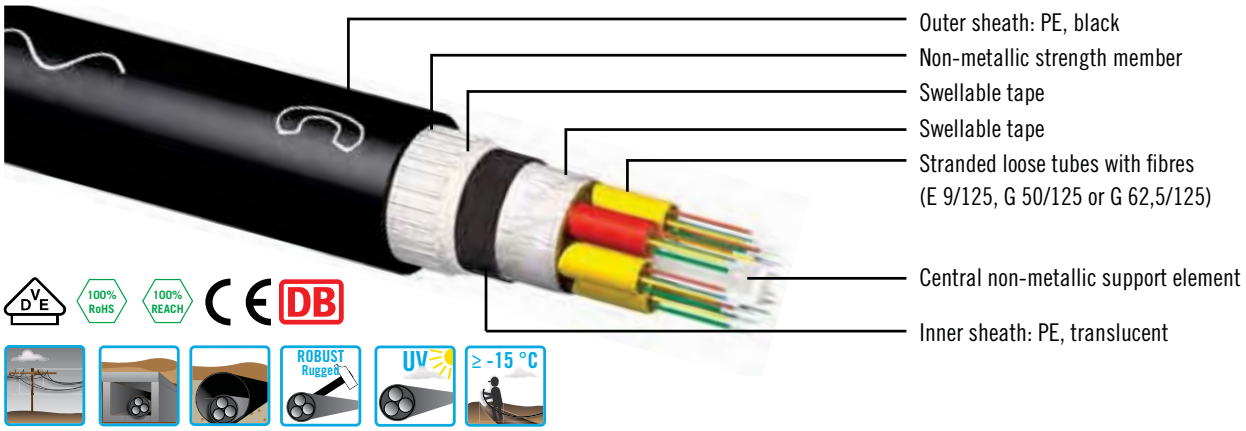
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO aerial cable ADSS, (DB AG)

A-D2Y(ZN)2Y nx...

FO aerial cable, self-supporting, stranded loose tube, acc. to Deutsche Bahn AG



Standards

acc. to 1.011.005y
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Type of fibre	E9/125
Field diameter µm	9-10
Cladding diameter µm	125
Attenuation dB/km	
at 1310 nm	≤ 0,36
at 1550 nm	≤ 0,23
Chromatic dispersion ps/[nm x km]	
at 1310 +30/-15 nm	≤ 3,5
at 1550 +30/-70 nm	≤ 18
Permissible temperature range °C	
transport and storage	-25 to +60
laying	-15 to +50
operation	-40 to +60

Application

FO aerial cable ADSS (All-Dielectric Self-Supporting) for installation on overhead contact line poles, wood and other poles of DB AG. For planning and installation of this cable the directive „planning, construction, maintenance and inspection of fibre optic aerial cables at overhead contact line poles“ applies.

The cable is UV-resistant, resistant against shotgun pellets and suitable for use with high tensile, lateral pressure, vibration, bending and impact loading.

Type Designation Codes

A	outdoor cable
D	loose tube, filled
2Y	inner sheath made of polyethylene, PE
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-D2Y(ZN)2Y 6x4 E9/125 0,36F3,5 / 0,23H18

DB vendor no. 00105422,
Framework contract no. 1000/393/92194647

Edition: 04/2014

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BayCom® / BayCom★ FO aerial cable ADSS, (DB AG)

A-D2Y(ZN)2Y nx...

FO aerial cable, self-supporting, stranded loose tube, acc. to Deutsche Bahn AG

Product		Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm
A-D2Y(ZN)2Y	6x 2 E9/125	5926420	12	16	185	750	300 400
A-D2Y(ZN)2Y	6x 4 E9/125	5926410	24	16	185	750	300 400
A-D2Y(ZN)2Y	5x12 E9/125	5926460	60	17	205	750	300 400
A-D2Y(ZN)2Y	12x12 E9/125	5926450	144	22	340	750	400 500

Die Artikelnummern in der Tabelle gelten für Fasern acc. to 1.011.005y.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
Der Biegeradius einm. gilt statisch beim Ausformen des Kabels, der Biegeradius mehrm. gilt dynamisch, z. B. während der Verlegung.
Weitere Ausführungen, Passlängen und größere Lieferlängen auf Anfrage.

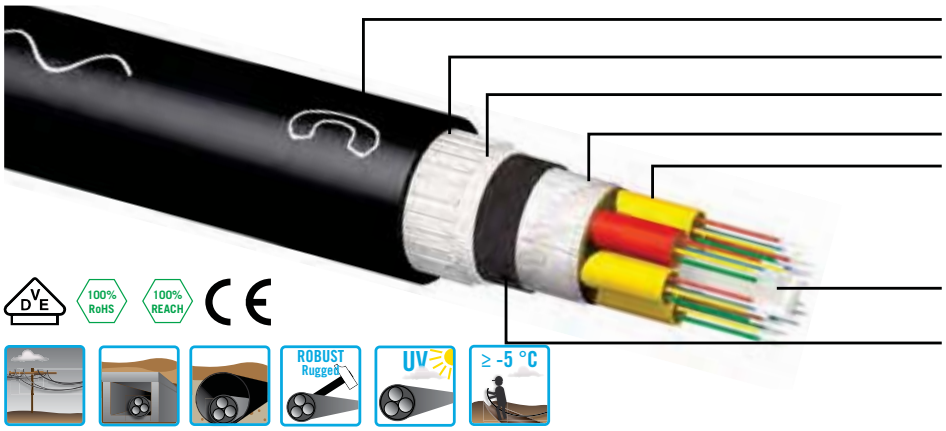
DB vendor no. 00105422, Framework contract no. 1000/393/92194647

Edition: 04/2014

BayCom® / BayCom★ FO aerial cable, self-supporting

A-DQ2Y(ZN)2Y nx...

FO aerial cable, self-supporting, stranded loose tube,
based on TS 0311/96-2



Standards

based on TS0311/96-2, DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL03.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

FO aerial cable ADSS (All-Dielectric Self-Supporting) for installation on overhead, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission.
The cable is suitable for installation on poles, overhead lines, between buildings or other applications with higher requirements for the tensile load and vibration resistance.

In addition for BayCom* FO cables
- Improved optical properties compared to standard fibres

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - water-tight
2Y	inner sheath made of polyethylene, PE
(ZN)	non-metallic strength members
2Y	outer sheath made of polyethylene, PE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-D2Y(ZN)2Y 6x4 E9/125 0,36F3,5 / 0,22H18

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BayCom® / BayCom★ FO aerial cable, self-supporting

A-DQ2Y(ZN)2Y nx...

FO aerial cable, self-supporting, stranded loose tube,
based on TS 0311/96-2

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm
A-DQ2Y(ZN)2Y	2x 2 E9/125	Z < 6100 N	5979170	4	16	195	610	240 400
A-DQ2Y(ZN)2Y	2x 4 E9/125	Z < 6100 N	5969270	8	16	195	610	240 400
A-DQ2Y(ZN)2Y	4x 2 E9/125	Z < 6100 N	5979180	8	16	195	610	240 400
A-DQ2Y(ZN)2Y	6x 2 E9/125	Z < 6100 N	5979200	12	16	195	610	240 400
A-DQ2Y(ZN)2Y	4x 4 E9/125	Z < 6100 N	5969280	16	16	195	610	240 400
A-DQ2Y(ZN)2Y	6x 4 E9/125	Z < 6100 N	5969310	24	16	195	610	240 400
A-DQ2Y(ZN)2Y	3x12 E9/125	Z < 6100 N	5969340	36	17	220	610	250 420
A-DQ2Y(ZN)2Y	4x12 E9/125	Z < 6100 N	5969350	48	17	220	610	250 420
A-DQ2Y(ZN)2Y	5x12 E9/125	Z < 6100 N	5969360	60	17	220	610	250 420
A-DQ2Y(ZN)2Y	6x12 E9/125	Z < 6100 N	5969370	72	17	220	610	250 420
A-DQ2Y(ZN)2Y	8x12 E9/125	Z < 6100 N	5969400	96	19	260	610	280 470
A-DQ2Y(ZN)2Y	12x12 E9/125	Z < 6100 N	5969500	144	22	370	610	340 570

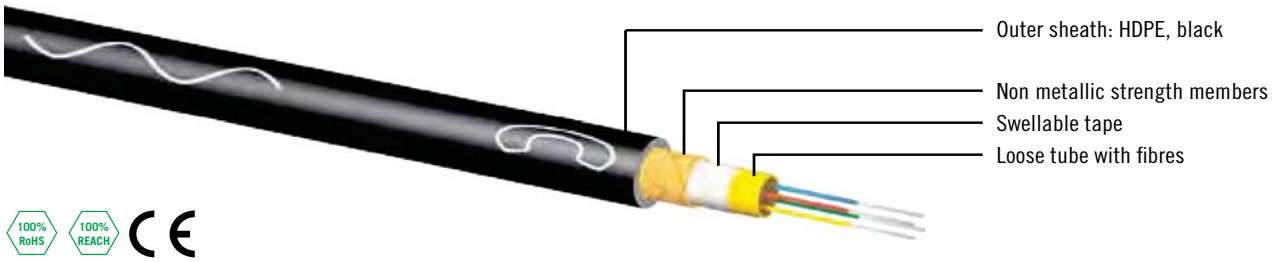
The part numbers in the table are for fibers after G.652.D (standard)
For other fibers supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
The bending radius repeated applies to dynamic bending operations eg during the installation.

Edition: 04/2014

BayCom® / BayCom★ FO micro cable - for microducts

A-DQ(ZN)2Y (HD) Micro 1x...

FO outdoor cable, metal-free, with armouring / rodent protection, central loose tube, for blowing installation into microducts, to DIN VDE and Bayka factory standard



Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Colour coding of fibres	acc. to IEC 60304

Permissible temperature range °C	
transport and storage	-30 to +70
laying	-5 to +50
operation	-20 to +70

Application

Metal-free FO micro cable for blowing into microducts, for FTTH networks as termination and connection cable in local networks, PBXs, for telephony and data transmission.

The micro cable is characterized by an extremely compact and rugged design. The cable is UV-resistant and water-tight and guarantees high quality of the transmission network and a long life.

The bending stiffness / flexibility and low friction HDPE outer sheath is optimally adjusted to the microducts so great blow in can be achieved.

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	able core with swellable tape - water-tight
(ZN)	non-metallic strength members
2Y	outer sheath made of high density polyethylene, HDPE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-D(ZN)2Y (HD) Micro 1x12 E9/125 G.652.D

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BayCom® / BayCom★ FO micro cable - for microducts

A-DQ(ZN)2Y (HD) Micro 1x...

FO outdoor cable, metal-free, with armouring / rodent protection, central loose tube, for blowing installation into microducts, to DIN VDE and Bayka factory standard

Product	Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm

The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO micro cable - for microducts

A-DQ(ZN)2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, stranded loose tube, for blowing installation into microducts, to DIN VDE and Bayka factory standard

Standards

DIN VDE 0888-3, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657 A1, BayCom LWL01.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Colour coding of fibres	acc. to IEC 60304

Permissible temperature range °C	
transport and storage	-30 to +70
laying	-5 to +50
operation	-30 to +60

Application

Metal-free FO micro cable for blowing into microducts, for FTTH networks as termination and connection cable in local networks, PBXs, for telephony and data transmission.

The micro cable is characterized by an extremely compact and rugged design. The cable is UV-resistant and water-tight and guarantees high quality of the transmission network and a long life.

The bending stiffness / flexibility and low friction HDPE outer sheath is optimally adjusted to the microducts so great blow in can be achieved.

Type Designation Codes

A	outdoor cable
D	loose tube, filled
Q	cable core with swellable tape - water-tight
(ZN)	non-metallic strength members
2Y	outer sheath made of highdensity polyethylene, HDPE

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- A-DQ(ZN)2Y (HD) Micro 12x12 E9/125 G.652.D

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BayCom® / BayCom★ FO micro cable - for microducts

A-DQ(ZN)2Y nx...

FO outdoor cable, metal-free, with armouring / rodent protection, stranded loose tube, for blowing installation into microducts, to DIN VDE and Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm
A-DQ(ZN)2Y (HD)	1x 8 E9/125	(VS) Microkabel AD: 6,4mm	5925230	8	7	35	90	65 100
A-DQ(ZN)2Y (HD)	1x10 E9/125	(VS) Microkabel AD: 6,4mm	5925240	10	7	35	90	65 100
A-DQ(ZN)2Y (HD)	1x12 E9/125	(VS) Microkabel AD: 6,4mm	5925250	12	7	35	90	65 100
A-DQ(ZN)2Y (HD)	2x12 E9/125	Microkabel AD: 6,4mm	5925170	24	7	35	90	65 100
A-DQ(ZN)2Y (HD)	3x12 E9/125	Microkabel AD: 6,4mm	5925180	36	7	35	90	65 100
A-DQ(ZN)2Y (HD)	4x12 E9/125	Microkabel AD: 6,4mm	5925100	48	7	35	90	65 100
A-DQ(ZN)2Y (HD)	6x12 E9/125	Microkabel AD: 6,4mm	5925120	72	7	37	90	65 100
A-DQ(ZN)2Y (HD)	8x12 E9/125	Microkabel AD: 6,6mm	5999110	96	7	41	90	65 100

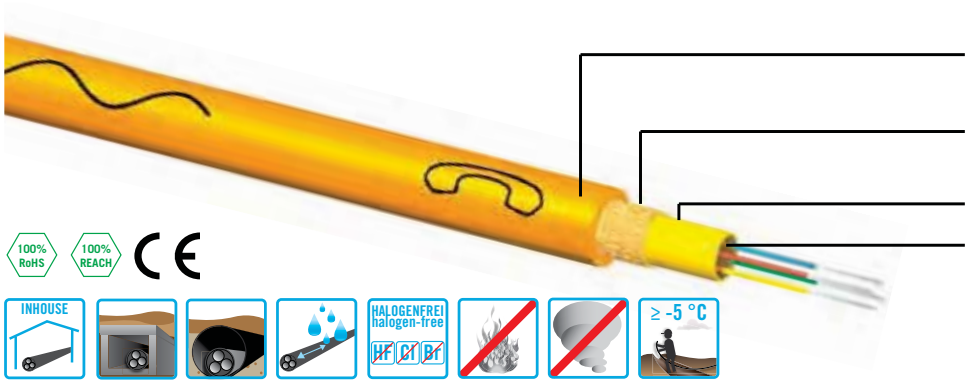
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO universal cable

U-DQ(ZN)bH 1x...

FO universal cable, flame retardant, non-corrosive, for indoor and outdoor, central loose tube, acc. to Bayka factory standard



Standards

DIN VDE 0888-114, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657.A1, flame retardant acc. to DIN EN 60332-3 (cable bundles), BayCom LWL 04.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
OM2	G50/125 2,5B500 0,7F500
OM3	G50/125 2,5B1500 0,7F500
OM4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

FO universal cable, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission.

The cable is also suitable for installation indoor and outdoor, in trays and ducts and tubes, but not for direct burial.
For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

U	universal cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
H	outer sheath made of flame retardant, non-corrosive plastic

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- U-DQ(ZN)bH 1x12 E9/125
- U-DQ(ZN)bH 1x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO universal cable

U-DQ(ZN)bH 1x...

FO universal cable, flame retardant, non-corrosive, for indoor and outdoor, central loose tube, acc. to Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
U-DQ(ZN)bH	1x 2 E9/125	(ZB / M-GE)	5820210	2	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x 4 E9/125	(ZB / M-GE)	5820220	4	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x 6 E9/125	(ZB / M-GE)	5820230	6	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x 8 E9/125	(ZB / M-GE)	5820240	8	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x10 E9/125	(ZB / M-GE)	5820250	10	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x12 E9/125	(ZB / M-GE)	5820260	12	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x16 E9/125	(ZB / M-GE)	5820270	16	10	95	150	100	190	1,8
U-DQ(ZN)bH	1x24 E9/125	(ZB / M-GE)	5820280	24	10	95	150	100	190	1,8

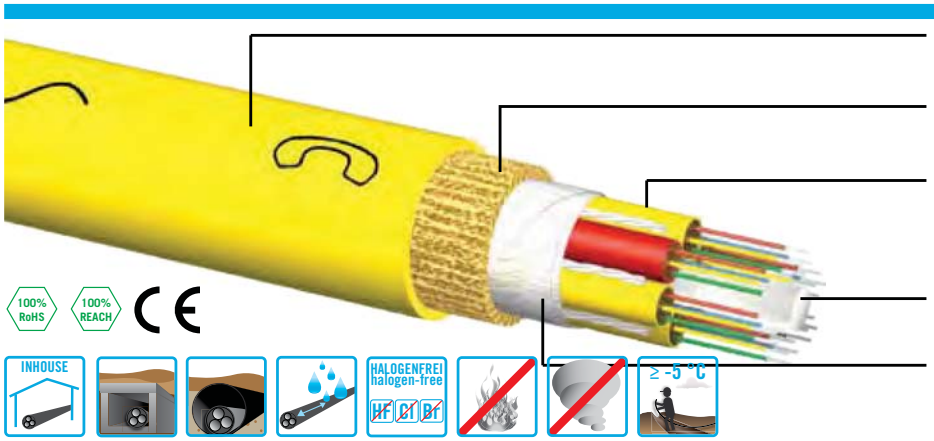
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO universal cable

U-DQ(ZN)bH nx...

FO universal cable, flame retardant, non-corrosive, for indoor and outdoor, stranded loose tube, acc. to Bayka factory standard



Standards

DIN VDE 0888-114, EN 60794-3 (VDE 0888-108), ITU-T G.652.D, ITU-T G.651, ITU-T G.657.A1, flame retardant acc. to DIN EN 60332-3 (cable bundles), BayCom LWL 04.
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Single-mode fibre	
G.652.D (Standard)	E9/125 0,36F3,5 0,22H18
G.652.D (BayCom★)	E9/125 0,35F3,0 0,21H18
G.657.A1	E9/125 0,36F3,5 0,21H18
Multi-mode fibre	
0M2	G50/125 2,5B500 0,7F500
0M3	G50/125 2,5B1500 0,7F500
0M4	G50/125 2,5B3500 0,7F500
Colour coding of fibres	acc. to IEC 60304
Permissible temperature range °C	
transport and storage	-40 to +70
laying	-5 to +50
operation	-30 to +60

Application

FO universal cable, as termination and connection cable in wide area and local area networks, PBXs, for telephony and data transmission.

The cable is also suitable for installation indoor and outdoor, in trays and ducts and tubes, but not for direct burial.
For this FO cable acc. to the factory standard BayCom LWL01 applies:

For this FO cable acc. to the factory standard BayCom LWL01 applies:

- Quality assurance through VDE Certificate/VDE manufacturing report

In addition for BayCom* FO cables

- Improved optical properties compared to standard fibres

Type Designation Codes

U	universal cable
D	loose tube, filled
Q	cable core with swellable tape - watertight
(ZN)	non-metallic strength members
b	non-metallic rodent protection
H	outer sheath made of flame retardant, non-corrosive plastic

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- U-DQ(ZN)bH 12x12 E9/125
- U-DQ(ZN)bH 12x12 E9/125 G.652.D BayCom*

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BayCom® / BayCom★ FO universal cable

U-DQ(ZN)bH nx...

FO universal cable, flame retardant, non-corrosive, for indoor and outdoor, stranded loose tube, acc. to Bayka factory standard

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm		Fire load MJ/m
U-DQ(ZN)bH	1x 2 E9/125	(VS / M-GE)	5820010	2	12	125	250	110	220	2,7
U-DQ(ZN)bH	2x 2 E9/125	(M-GE)	5820020	4	12	125	250	110	220	2,6
U-DQ(ZN)bH	4x 2 E9/125	(M-GE)	5820030	8	12	130	250	110	220	2,7
U-DQ(ZN)bH	6x 2 E9/125	(M-GE)	5820040	12	12	140	250	120	240	2,9
U-DQ(ZN)bH	6x 4 E9/125	(M-GE)	5820050	24	12	140	250	120	240	2,9
U-DQ(ZN)bH	6x 6 E9/125	(M-GE)	5820060	36	12	140	250	120	240	2,9
U-DQ(ZN)bH	4x12 E9/125	(M-GE)	5820070	48	12	150	250	120	240	3
U-DQ(ZN)bH	5x12 E9/125	(M-GE)	5820080	60	12	150	250	120	240	3
U-DQ(ZN)bH	6x12 E9/125	(M-GE)	5820090	72	13	165	250	130	250	3,4
U-DQ(ZN)bH	8x12 E9/125	(M-GE)	5820100	96	14	195	300	140	280	4,1
U-DQ(ZN)bH	10x12 E9/125	(M-GE)	5820110	120	16	235	350	160	310	5,2
U-DQ(ZN)bH	12x12 E9/125	(M-GE)	5820120	144	17	275	400	170	340	6,2
U-DQ(ZN)bH	16x12 E9/125	(M-GE)	5820130	192	20	365	550	200	390	9
U-DQ(ZN)bH	24x12 E9/125	(M-GE)	5820140	288	20	345	500	200	390	7,6

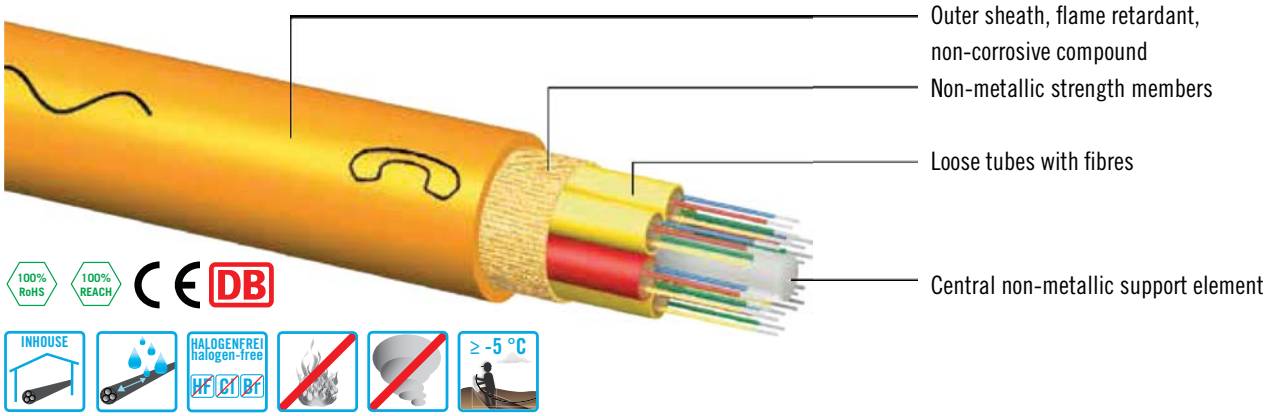
The order numbers in the table apply to fibres according to G.652.D (Standard).
For other fibres supplement the cable designation with G.652.D BayCom*, G.657 A1, OM2, OM3, OM4 respectively.
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

Edition: 04/2014

BayCom® / BayCom★ FO indoor cable

I-D(ZN)H nx...

FO indoor cable E9/125, flame retardant, non-corrosive, stranded loose tube, acc. to Arcor TNP 07



Standards

nach Arcor TNP 07
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Type of fibre	E9/125
Field diameter µm	8,6-9,5
Cladding diameter µm	125
Attenuation dB/km	
at 1310 nm	≤ 0,40
at 1550 nm	≤ 0,30
Chromatic dispersion ps/[nm x km]	
at 1310 +30/-15 nm	≤ 5
at 1550 +30/-70 nm	≤ 21
at 1550	≤ 19
Permissible temperature range °C	
transport and storage	-5 to +70
laying	-5 to +50
operation	-25 to +60

Application

Indoor optical fibre cable for installation in buildings as a continuation of external cables to the cable termination equipment and between termination equipment and distributors.
These cables are intended for indoor laying on cable trays and in raised floors. They are not intended for laying in ground and outside of buildings.
Indoor cables are available with central tube or with stranded loose tubes.

Type Designation Codes

I	indoor cable
D	loose tube, filled
(ZN)	non-metallic strength members
H	outer sheath made of flame retardant, non-corrosive plastic

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- I-D(ZN)H 6x12 E9/125 Arcor TNP 07

DB vendor no. 00105422,
Framework contract no. 1000/393/92194647

Edition: 04/2014

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BayCom® / BayCom★ FO indoor cable

I-D(ZN)H nx...

FO indoor cable E9/125, flame retardant, non-corrosive, stranded loose tube, acc. to Arcor TNP 077

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm	
I-D(ZN)H	1x 4 E9/125	(M-GR / Zentralbündel)	5913200	4	7	42	45	50	100
I-D(ZN)H	1x12 E9/125	(M-GR / Zentralbündel)	5913500	12	7	42	40	50	100
I-D(ZN)H	6x 4 E9/125	(M-GR)	5913400	24	9	80	100	100	200
I-D(ZN)H	4x12 E9/125	(M-GR)	5913700	48	12	120	100	100	200
I-D(ZN)H	5x12 E9/125	(M-GR)	5913800	60	12	120	100	100	200
I-D(ZN)H	6x12 E9/125	(M-GE)	5901600	72	12	135	100	100	200
I-D(ZN)H	6x12 E9/125	(M-GR)	5913600	72	12	135	100	100	200

The order numbers in the table apply to fibres according to G.652.D (Standard).
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

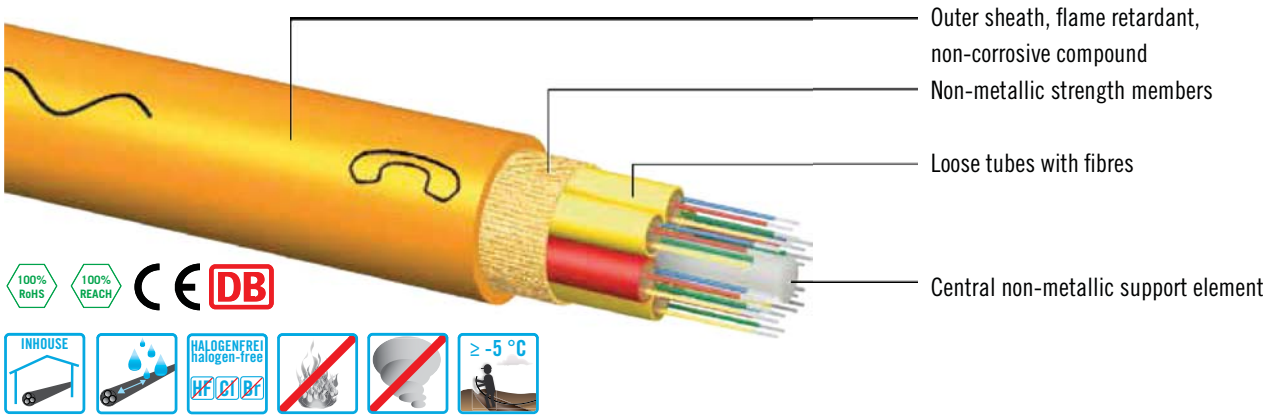
DB vendor no. 00105422, Framework contract no. 1000/393/92194647

Edition: 04/2014

BayCom® / BayCom★ FO indoor cable

I-D(ZN)H nx...

FO indoor cable G50/125, flame retardant, non-corrosive, stranded loose tube, acc. to Arcor TNP 07



Standards

acc. to Arcor TNP 07
The cables are compliant to RoHS EU Directive 2011/65/EU - RoHS 2.0 and Regulation No 1907/2006 (REACH), current as of 20.06.2013.

Technical Data

Type of fibre	G50/125
Core diameter µm	50±0,3
Cladding diameter µm	125±0,3
Attenuation dB/km	
at 850 nm	≤ 2,5
at 1300 nm	≤ 1,0
Bandbreite MHz x km	
at 850 nm	≥ 600
at 1300 nm	≥ 1000
Permissible temperature range °C	
transport and storage	-5 to +70
laying	-5 to +50
operation	-25 to +60

Application

Indoor optical fibre cable for installation in buildings as a continuation of external cables to the cable termination equipment and between termination equipment and distributors.
These cables are intended for indoor laying on cable trays and in raised floors. They are not intended for laying in ground and outside of buildings.
Indoor cables are available with central tube or with stranded loose tubes.

Type Designation Codes

I	indoor cable
D	loose tube, filled
(ZN)	non-metallic strength members
H	outer sheath made of flame retardant, non-corrosive plastic

Special Designs

- Design according to national and international standards
- Design according to customer specifications
- Design with limited tolerance of outer diameter

Order Example

- I-D(ZN)H 6x12 G50/125 Arcor TNP 07

DB vendor no. 00105422,
Framework contract no. 1000/393/92194647

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BayCom® / BayCom★ FO indoor cable

I-D(ZN)H nx...

FO indoor cable G50/125, flame retardant, non-corrosive, stranded loose tube, acc. to Arcor TNP 07

Product			Bayka Order.-No°	Fibre No°	Outer-Ø approx. mm	Net weight approx. kg/km	max. tensile force daN	Bending radius one-off / repeated min. mm
I-D(ZN)H	1x 4 G50/125	(OM2/ Zentralbündel/ M-GR)	5914200	4	7	42	45	50 100
I-D(ZN)H	1x12 G50/125	(OM2/ Zentralbündel/ M-GR)	5914500	12	7	42	40	50 100
I-D(ZN)H	6x 4 G50/125	(OM2/ M-GR)	5914400	24	10	80	100	100 200
I-D(ZN)H	4x12 G50/125	(OM2/ M-GR)	5914700	48	12	115	100	100 200
I-D(ZN)H	5x12 G50/125	(OM2/ M-GR)	5914800	60	12	115	100	100 200

The order numbers in the table apply to fibres according to G.652.D (Standard).
Errors and omissions excepted, weights and dimensions are approximate values.
Tensile force only valid when cable sheath and cable core involved.
The bending radius one-off is for professionally installed cables, unique molding.
Other designs, fitted lengths and larger delivery lengths on request.

DB vendor no. 00105422, Framework contract no. 1000/393/92194647

Edition: 04/2014

Bayerische Kabelwerke AG

Roth in Central Franconia

The whole
World of Cable
all from one source

Ecology + know-how = sustainability!

The headquarter of the Bayerische Kabelwerke AG (Bayka) is based in Roth (Franconia). We produce cables for telecommunications-, energy and transport networks as well for industrial and systems engineering. Our modern company is certified by DIN ISO 9001 and ISO 14001. The large portfolio we produce in according to national and international standards and specifications. It ranges from power-, telecommunications-, signalling and special cables up to wires , cords and ropes.

Bayka is now one of the well-known Manufacturers of power cables, insulated overhead cables, copper- and Aluropes, multi-system wide-area cables, telecommunication cables, railway cables and optical fibres. For over 125 years we have been one of the most successful actors in these markets - exclusively “made in Germany”.

BAVARIAN KABELWERKE AG
Otto Schrimpff -Strasse 2
D- 91154 Roth

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Fax: +49 (0) 9171 806-222
E -mail : kabel@bayka.de
www.bayka.de

Chairman of the Supervisory Board:
Christiane Wilms-Mester
Board of Directors: Johann Erich Wilms
Place of business: 91154 Roth

The production of color concentrates and plastic mixtures, initially for their own use, is now an independent company. With powerful equipment for plastic processing the Bayka Color GmbH manufactures high-quality products for the plastics processing industry.

Bayka Color GmbH
Otto-Schrimpff-Strasse 2
D-91154 Roth

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Fax: +49 (0)9171 806-139
E-Mail: farbkonzentrate@bayka.de

Edition: 04/2014

Bayka Berlin GmbH & Co. KG

Berlin

The Bayka Berlin GmbH & Co. KG is a specialized company for the manufacture of power cables with Aluminium conductors.
A modern equipment and qualified staff ensure productivity at the highest quality standard.
We produce copper and aluminum cables in the standard range as well as special cables according to customer requirements for national and international markets.

Bayka Berlin GmbH & Co.
Soltauer Strasse 8
13509 Berlin · Germany

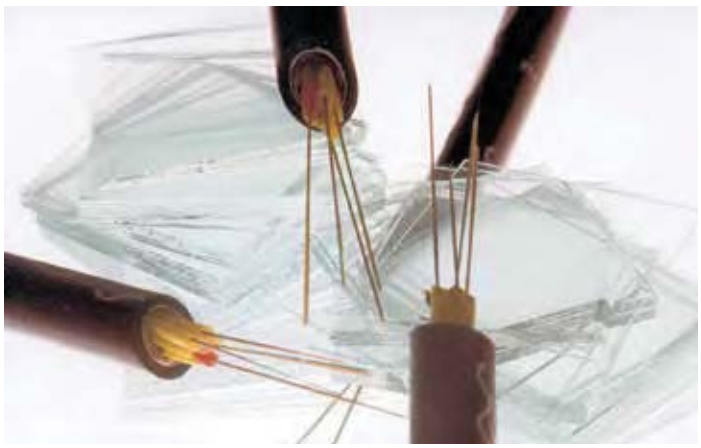
Berliner Glasfaserkabel GmbH

Berlin

The Berlin fiber optic cables GmbH (BGF) was founded in 1986 and acquired by Bayka AG 2005. This allowed us to complement our portfolio and the manufacturing spectrum with the important and pioneering the field of fiber optic cable.

Today, well-known companies such as the German Telekom AG or the German Bahn AG are large customers for our outdoor, indoor, air and Rail footcables.

Berliner Glasfaserkabel GmbH
Wilhelminenhofstrasse 76/77
12459 Berlin · Germany



Edition: 04/2014

Quality of Bayka

DIN ISO-certified ISO 9001, 14001

We have all the approvals VDE (VDE approval mark) and are certified according to DIN EN ISO 9001 and 14001. Furthermore, some items are additionally awarded a TÜV certification. For example, the Bayka Solar PV line has been certified and tested by TÜV Rheinland.

Sustainability and environmental awareness

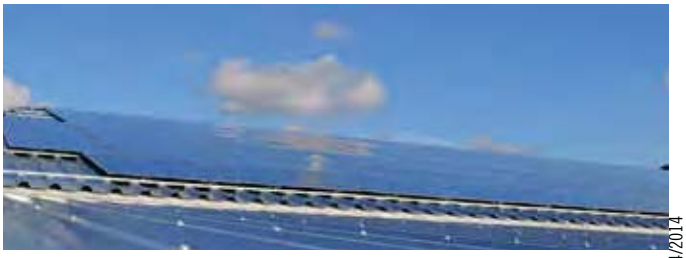
Our photovoltaic system on the roof of the factory halls

Since July 2012, the photovoltaic system is installed on the company's roofs. The 12,100 m² achieve an overall performance of 960kWp.

We have used the installation to update the roofs and provided with thermal insulation.

Bayka photovoltaic system

total power:
960 kWp
total:
ca. 12.100 m²



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Energy

e·on RWE EnBW essent Electricity thüga VATTENFALL

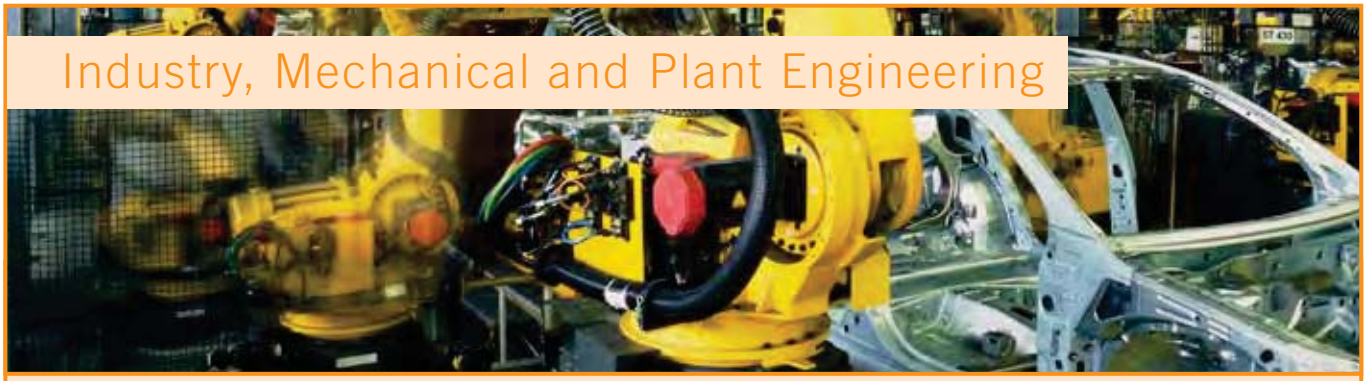
Telecommunications

Deutsche Telekom vodafone TELEKOM AUSTRIA GROUP Telefónica M-net LEW TelNet Thüringer Netkom

Railway & Traffic

DB ÖBB SBB CFF FFS renfe adif Balfour Beatty MAN HIGHWAYS AGENCY

Industry, Mechanical and Plant Engineering



SIEMENS ABB voestalpine DUENSING Balfour Beatty Ferrostaal

Edition: 04/2014

Piktograms


Direct burial


Laying in ducts


Blowing in ducts and pipes


Laying in trays

Outdoor


Laying in water


Aerial cable, self supporting

Inhouse

Particularly rugged


Rodent protected

screened

Temperature at laying

Lead free

Halogen-free


Flame retardant


Low smoke


Longitudinally watertight


Transversally watertight

Oil-resistant


Acid-resistant

Particularly flexible


Limited UV-resistant

Type designation codes telecommunication

The number of conductors or pairs are marked with numbers. After the digits marking the stranded elements follows. The first letter of the type designation indicates the cable type or the application.

A	Outdoor cable
AB	Outdoor cable with lightning protection requirements
AJ	Outdoor cable with induction protection requirements
G	Mine cable
GJ	Mine cable with induction protection requirements
J	Installation cable
JE	Installation cable for industrial electronics
L	Hose cable for telecommunication systems. Cables with stranded conductors for increased mechanical stress for telecommunication systems
S	Switch board cable for telecommunication systems
P	Insulation made of paper
Y	Insulation or sheath or protective sheath made of polyvinylchloride (PVC)
Yv	Reinforced protective sheath made of polyvinylchloride (PVC)
2Y	Insulation of solid PE or sheath or protective sheath made of polyethylene (PE)
2Yv	Reinforced protective sheath made of polyethylene (PE)
02Y	Insulation made of foamed polyethylene (PE)
02YS	Insulation made of foam-skin
3Y	Insulation made of styroflex
4Y	Insulation made of polyamide (PA)
5Y	Insulation made of polytetrafluoroethylene (PTFE)
6Y	Insulation made of perflourethylenpropylen (FEP)
7Y	Insulation made of ethylene tetrafluoroethylene (ETFE)
9Y	Insulation made of polypropylene (PP)
09YS	Insulation made of polypropylene foam-skin
H	Insulation or sheath made of halogen free material
FE	Cable with insulation integrity
M	Lead sheath
Mz	Annealed lead sheath

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C	Screen made of copper braid
(C)	Individually screend pairs (copper braid)
(K)	Screen made of copper tape
L	Aluminum sheath
LD	Corrugated aluminum sheath
(L)2Y	Al-laminated sheath made of polyethylene, PE
F	Cable core with jelly filling
TF	Cable core with swellable tape
W	Corugated steel tape sheath
D	Screen made of round copper wires
B*)	Armouring
C*)	Protective sheath of jute and viscous compound
Q	Armouring made of steel braid
(St)	Screen (metal tape or plastic laminated metal tape)
(Z)	Steel wire braid over the inner PVC sheath
E	Compound layer with embedded plastic tape
T	Strength members
(Zg)	Strength members of bundled fiberglass yarns in or under the sheath

Bd	Stranded in bundles
DM	Multiple twin quad
Lg	Lagenverseilung
F	Star quad in the railway communications cables
St	Star quad with phantom circuit
St I	Star quad in district cables (trunk cable)
St III	Star quad in local cables
St VI	Star quad HF suitable up to 4 MHz
St VII	Star quad HF suitable up to 16 MHz
St VIII	Star quad HF suitable up to 32 MHz
PiMF	Shielded pair (pairs in metal foil)
S	Railway signalling cable
TF	Star quad for carrier frequency technology

Example of a plastic insulated telecommunication cable: A-02YSOF(L)2Y 20x2x0,8 StIII Bd

Type designation codes fibre optic

A-		D		Q	(ZN)2Y	12x12	E	9/	125	0,36	F	3,5	LG
1	2	3	4	5	6	7	8	9	10	11	12	13	14

1 A - outdoor cable,
J - indoor cable,
AT - outdoor cable, divisible,
U - universal cable for outdoor and indoor use (also as A/J)

2 (ZS) - metallic support element/strength member

3 V - tight buffered fibre
W - loose tube with 1 fibre, filled
D - loose tube, filled
E - loose tube, flexible

4 S - metallic core/pair/quad

5 **Filling** of the cable core
F - petrojelly
OF - special jelly
Q - swellable tapes

6 **Cable sheath**
Y - PVC
H - flame retardant
2Y - PE
4Y - PA
11Y - PUR
(L)2Y - Al-laminated sheath
(SR)2Y - corrugated steel tape armouring and PE- sheath
(ZN)2Y - non-metallic strength members and PE-sheath
(ZN)(L)2Y - non-metallic strength members and PE-sheath
Al-laminated sheath
(ZN)(SR)2Y - non-metallic strength members, corrugated steel tape armouring and PE- sheath

7 Number of cores with a fiber in loose tube cables
Number of loose tubes x number of fibers per loose tube in loose tube cables

8 Type: E - single-mode fiber, G - Graded-

9 Fiber core diameter fiber in microns for multi-mode or field diameter in microns in single-mode fibers

10 Fiber cladding diameter in microns

11 Attenuation coefficient in dB / km

12 Wavelength: B - 850nm, F - 1300nm at G, 1310 e
H - 1550nm

13 Bandwidth at G, dispersion coefficient in single-mode fibers

14 LG - layering, SZ - SZ stranding

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