

Customized fiber optic cables

The backbone of broadcast



The past, present, and future of photonics excellence.



Quality
made in
Germany



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Welcome to the forefront of optical technology
with WEINERT'S fiber optic cables brochure.

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A look back at our evolution

1991

In the established industrial environment of Roth, Franconia, Germany, the foundation for our journey was laid. This year marked the beginning of fiber optic cable production within LEONI's facilities – a decisive step into a technology that would define our future.

2001

Driven by entrepreneurial vision and technological ambition, Andreas Weinert founded FO Systems GmbH. This marked the transition from production expertise towards independent development and specialized fiber optic solutions.

2003

With growing capabilities and market relevance, FO Systems GmbH became part of the LEONI Group. This integration strengthened industrial capabilities and expanded access to global markets.

2007

Strategic expansion continued with the acquisition of Fibertech GmbH in Berlin. This step broadened the technological base and reinforced expertise in advanced fiber optic solutions.

2010

A year of significant growth and internationalization. The integration of j-plasma GmbH in Jena enhanced technological depth, while the acquisition of Romack Fiber Optics Inc. in Williamsburg, USA, marked a major step into the North American market.

2021

A defining milestone in our history. Through a management buyout led by Andreas Weinert and Marcus Bloom-Pflug, the Fiber Optics business unit of LEONI was acquired. This included optical preforms, specialty fibers, fiber optic cables, and optical components and systems. With this step, WEINERT Industries AG was established as an independent and focused technology company.

2022

Continuing our global expansion, WEINERT Optic Electric Technology (Jiangsu) Co., Ltd. was founded. At the same time, the acquisition of assets in the specialty fiber segment further strengthened our position in high-performance fiber technologies.

Today

WEINERT stands for high-performance fiber optic solutions engineered for demanding and mission-critical environments worldwide.

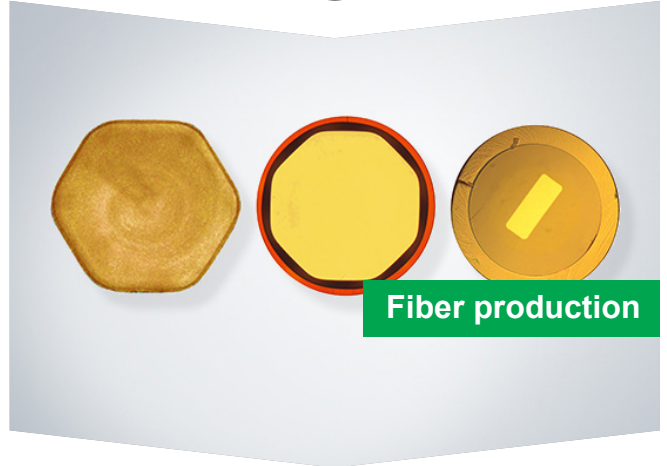
Our strengths, your advantage

- Integrated value chain
- Client-specific product and system solutions
- International development and engineering partner
- OEM service and integration partner
- Quality made in Germany
- Global presence and support
- Active participation in international standardization committees (IEC, DIN)

 Direct influence at every stage
of the value chain



Raw materials



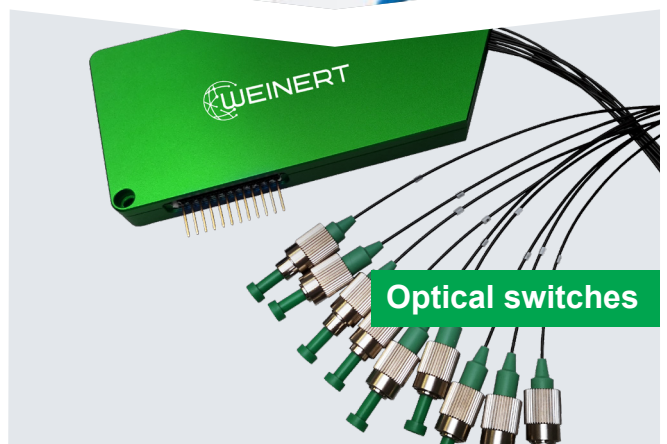
Fiber production



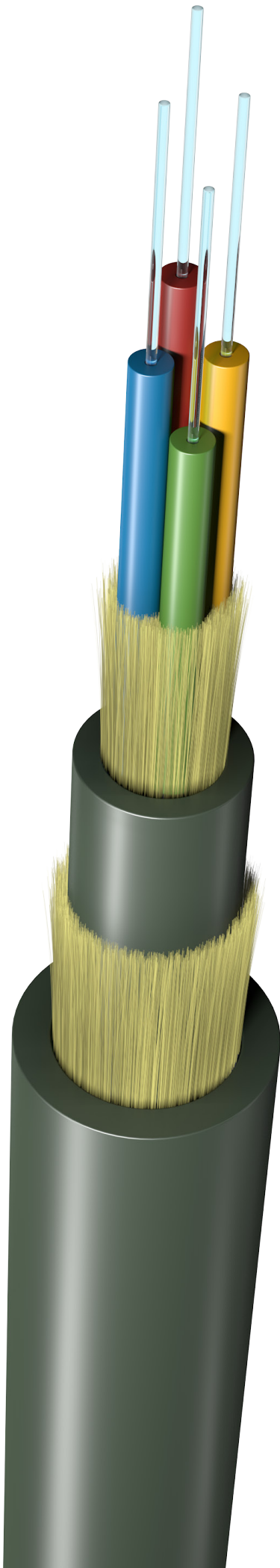
Cable production



Assembly and medical devices



Optical switches



Product solutions for every application

Our fields of competence

- **Communications**
wiring systems for buildings and industry
- **Energy**
mining, wind, solar, nuclear, petroleum, utilities
- **Mechanical and plant engineering**
drag chains and switches
- **Automation and robotics**
Industrial Ethernet, bus systems, high-performance
lasers for materials processing
- **Transportation engineering**
air and space travel, transport
- **Defense**
system components and tactical field cables
- **Laser technology**
active and passive fiber optic cables for
laser welding/laser processing
- **Medicine & life sciences**
laser probes, endoscopic equipment
- **Sensor technology/analytics**
color, opacity and gas sensor technology,
environmental engineering
- **Naval & maritime engineering**
steering control cables
- **Spectroscopy**
chemical and food industries, astrophysics
- **Scientific institutions**
universities, research centers
- **Optical engineering**
synthetic fused silica

From fiber to broadcast performance

Every successful live production starts with a connection you can rely on. Whether it's an international sporting event, a news broadcast, an entertainment show, or a major event – millions of viewers experience the result. What they don't see is the technical infrastructure behind it. Cameras, control rooms, broadcast trucks, and production centers must be reliably connected at all times. Under time pressure. Under changing conditions. Without compromise.

This is precisely why WEINERT Fiber Optics develops high-performance fiber-optic solutions for professional broadcast applications. With decades of experience in the development and manufacture of highly specialized fiber-optic technologies, we help customers worldwide transmit critical signals securely and reliably. From in-house fiber manufacturing and cable development to custom solutions, we master the entire optical value chain – a level of expertise that few companies worldwide can offer. Our products are used wherever fail safety, performance, and long-term reliability are crucial. In stadiums. In OB vans. In studios. On concert tours. At major international events. Anywhere where live production allows for no second chances.

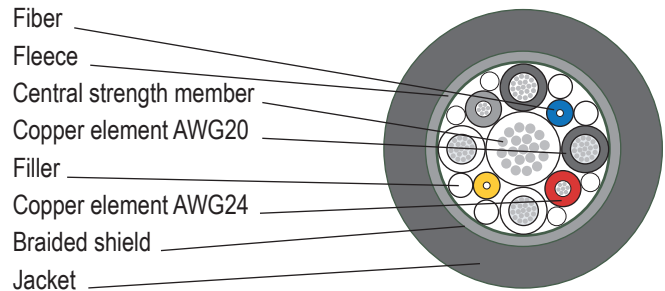
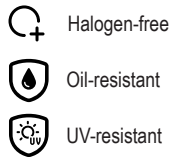
This brochure provides an overview of our technologies, our manufacturing expertise, and our broadcast portfolio. Above all, it shows why system integrators, broadcast assemblers, and professional users choose WEINERT when every connection matters.

Viewers experience the moment. We make sure it resonates.



Tactical camera cable SMPTE 311 PUR

FiberConnect® AT-(ZN)V(C)11Y 2E9/125 + 4 x 0.61 mm² (AWG20) + 2 x 0.22 mm² (AWG24)



Description

Flexible cable for moved application indoor and outdoor. For multimedia application.

Design

Cable core	Two tight buffered fibers (TB900L), outer diameter 0.9 mm Four stranded copper wires AWG20 with HDPE insulation Two stranded copper wires AWG24 with HDPE insulation Stranded steel wires (zinc-plated, diameter 1.8 mm) with PE jacket
Stranding	Two fiber elements, six copper elements and fillers stranded around a central strength member Wrapping with non-woven
Copper braid	Copper braid with tinned copper wires
Cable jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-40 °C to +85 °C
Installation	-10 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-40 °C to +85 °C

Fire performance

Halogen-free	acc. to IEC 60754-1
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Mechanical properties

Min. bending radius in moved application (dynamic) without additional tensile strain acc. to IEC 60794-1-21 E6 10 x outside diameter	
Max. tensile force acc. to IEC 60794-1-2 E1	750 N
Max. crush resistance acc. to IEC 60794-1-2 E3, short-term acc. to IEC 60794-1-2 E3, long-term	2,000 N/dm 500 N/dm

Standardization

In accordance to	SMPTE 311
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Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
2	84951671U	AT-(ZN)V(C)11Y 2E9/125 + 4 x 0.61 mm ² (AWG20) + 2 x 0.22 mm ² (AWG24)	9.2	115

Also available in FRNC and PVC version:

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
2	84951672U	AT-(ZN)V(C)H 2E9/125 + 4 x 0.61 mm ² (AWG20) + 2 x 0.22 mm ² (AWG24)	9.2	130
2	84951670U	AT-(ZN)V(C)Y 2E9/125 + 4 x 0.61 mm ² (AWG20) + 2 x 0.22 mm ² (AWG24)	9.2	125

FiberConnect® studio. Precision for permanent broadcast infrastructure

Modern broadcast facilities rely on infrastructure designed for continuous operation. Across studios, control rooms and media campuses, every connection must deliver consistent performance day after day, year after year.

FiberConnect® studio has been developed for permanent installations where reliability, scalability and efficient fiber management are essential. Designed to support high-density environments and future network requirements, it provides a robust foundation for professional broadcast infrastructures.

Designed for the infrastructure behind every broadcast.

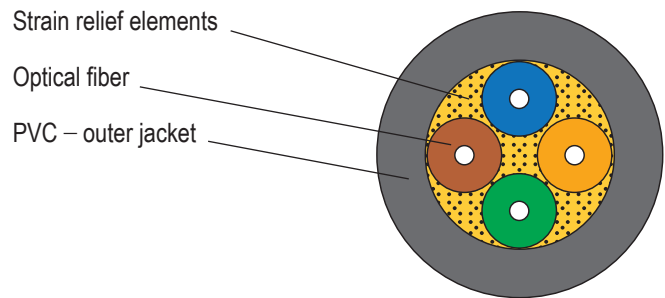


Studio cable 2–4 fibers

FiberConnect® I-V(ZN)Y n... TB900L 3.0



Oil-resistant



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections. For direct connector assembly.

Design

Cable core	Tight buffered fiber (TB900L), outer diameter 0.9 mm
Strain relief elements	Aramid
Cable jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-20 °C to +70 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-40 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	10 x outside diameter
Min. bending radius during assembly (dynamic),	
with additional tensile strain acc. to IEC 60794-1-2 E	
	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	400 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm

Standardization

IEC 60794-2

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
2	84951145#	I-V(ZN)Y 2... TB900L 3.0	3	9
4	84951150#	I-V(ZN)Y 4... TB900L 3.5	3.5	14

Studio cable 12 fibers for MPO connectors

FiberConnect® I-F(ZN)Y 12... 3.5

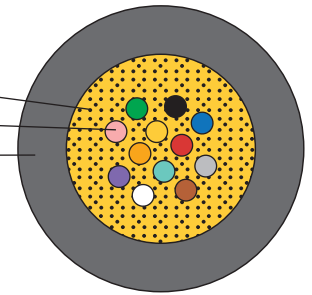


Oil-resistant

Strain relief elements

Optical fiber

PVC – outer jacket



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.

For direct connector assembly.

Design

Cable core	12 optical fibers
Strain relief elements	Aramid
Cable jacket	Polyvinyl chloride (PVC)

Thermal properties

Transport and storage	-20 °C to +70 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-40 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	30 mm
Min. bending radius during assembly (dynamic)	
with additional tensile strain	
acc. to IEC 60794-1-2 E	45 mm
Max. tensile force	
acc. to IEC 60794-1-2 E1	400 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm

Standardization

IEC 60794-2

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
12	84951151#	I-F(ZN)Y 12... 3.5	3.5	12.6

Studio cable 24 fibers for MPO connectors

FiberConnect® I-F(ZN)Y 24... 4.1

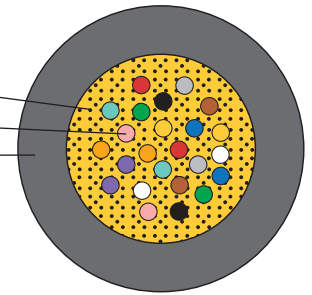


Oil-resistant

Strain relief elements

Optical fiber

PVC – outer jacket



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.

For direct connector assembly.

Design

Cable core 24 optical fibers

Strain relief elements Aramid

Cable jacket Polyvinyl chloride (PVC)

Thermal properties

Transport and storage -20 °C to +70 °C

Installation -5 °C to +50 °C

In use acc. to IEC 60794-1-2 F1 -40 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)

acc. to IEC 60794-1-2 E11A 30 mm

Min. bending radius during assembly (dynamic)

with additional tensile strain

acc. to IEC 60794-1-2 E 45 mm

Max. tensile force

acc. to IEC 60794-1-2 E1 400 N

Max. crush resistance

acc. to IEC 60794-1-2 E3, short-term 5,000 N/dm

Standardization

IEC 60794-2

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
24	84951251#	I-F(ZN)Y 24... 4.1	4.1	15

FiberConnect® tactical touring. Built for constant movement

Touring productions demand connectivity solutions that can keep pace with constant change. Equipment is transported, deployed, coiled and redeployed across different venues and under tight schedules.

FiberConnect® tactical touring has been engineered for repeated deployment cycles where flexibility, handling and durability are equally important. Combining mechanical robustness with reliable optical performance, it helps production teams stay connected wherever the next event takes place.

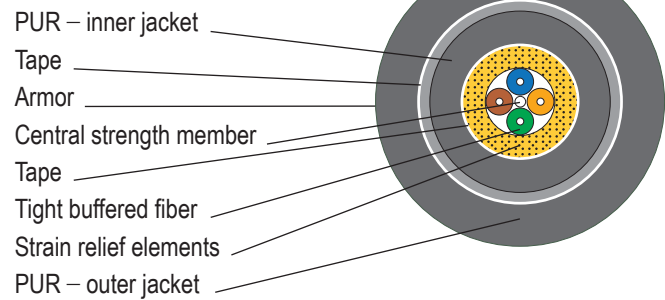
Ready to travel. Ready to perform.



Tactical touring cable 2–4 fibers

FiberConnect® A-V(ZN)11Y(ZN)B11Y n... TB900L

-  Oil-resistant
-  UV-resistant
-  Rodent protection



Description

Flexible cable for moved application indoor and outdoor. For harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	Tight buffered fibers TB900L, outer diameter 0.9 mm
Strain relief elements	Aramid
Inner jacket	Polyurethane (TPE-U)
Armor	Wrapped multifunctional e-glass yarns
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-55 °C to +85 °C
Installation	-40 °C to +70 °C
In use acc. to IEC 60794-1-2 F1	-55 °C to +85 °C

Fire performance

Halogen-free	acc. to IEC 60754-1
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Mechanical properties

Min. bending radius during assembly (dynamic)	
with additional tensile strain	
acc. to IEC 60794-1-2 E6	10 x outside diameter
Min. bending radius in moved application (dynamic)	
without additional tensile strain acc. to IEC 60794-1-2 E6	
	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	2.200 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term 5,000 N/dm	
Impact resistance	
acc. to EIA/TIA-455-25B	RT, stamp radius 12.5 mm, 20 impacts, force 4.41 Nm
Crush resistance	
acc. to EIA/TIA-455-41A	RT, plate 10 cm x 10 cm, 3 cycles, load 6,440 N, time 10 min

Standardization

IEC 60794-3

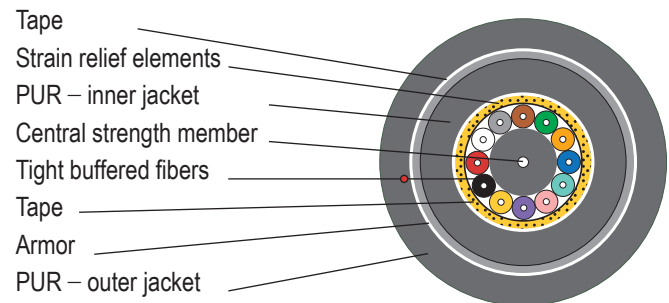
Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
2	84951133#	A-V(ZN)11Y(ZN)B11Y 2... TB900L	9.2	82
4	84951134#	A-V(ZN)11Y(ZN)B11Y 4... TB900L	9.2	82

Tactical touring cable 12 fibers

FiberConnect® A-V(ZN)11Y(ZN)B11Y 12... TB900L

-  Oil-resistant
-  UV-resistant
-  Rodent protection



Description

Flexible cable for moved application indoor and outdoor. For harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	Tight buffered fibers TB900L, outer diameter 0.9 mm
Strain relief elements	Aramid
Inner jacket	Polyurethane (TPE-U)
Armor	Wrapped multifunctional e-glass yarns
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-55 °C to +85 °C
Installation	-40 °C to +70 °C
In use acc. to IEC 60794-1-2 F1	-55 °C to +85 °C

Fire performance

Halogen-free	acc. to IEC 60754-1
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Mechanical properties

Min. bending radius during assembly (dynamic)	
with additional tensile strain acc. to IEC 60794-1-2 E6	10 x outside diameter
Min. bending radius in moved application (dynamic)	
without additional tensile strain acc. to IEC 60794-1-2 E6	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1, short-term	2,200 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm
Crush resistance	
acc. to EIA/TIA-455-41A	RT, plate 10 cm x 10 cm, 3 cycles, load 6,440 N, time 10 min

Standardization

IEC 60794-3

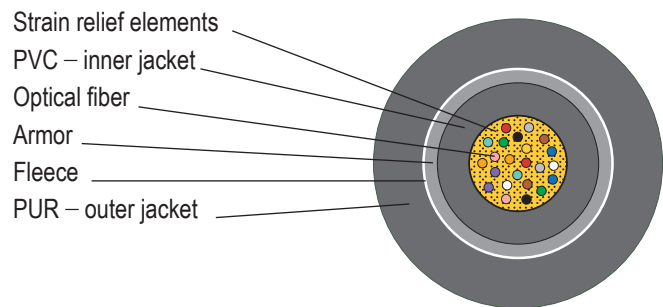
Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
12	84951152#	A-V(ZN)11Y(ZN)B11Y 12... TB900L	10.8	111

Tactical touring cable 24 fibers

FiberConnect® A-F(ZN)Y(ZN)B11Y 24...

-  Oil-resistant
-  UV-resistant
-  Rodent protection



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.
For direct connector assembly and harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	24 optical fibers
Strain relief elements	Aramid
Inner jacket	Polyvinyl chloride (PVC)
Armor	Wrapped multifunctional e-glass yarns
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-46 °C to +85 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-20 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	10 x outside diameter
Min. bending radius during assembly (dynamic),	
with additional tensile strain acc. to IEC 60794-1-2 E6	
	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	1,300 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
24	84951860#	A-F(ZN)Y(ZN)B11Y 24...	8.0	55

FiberConnect® tactical arena. Engineered for large-scale event connectivity

Large venues place unique demands on broadcast infrastructure. Long cable routes, distributed camera positions and temporary network deployments require solutions that combine optical performance with exceptional mechanical strength.

FiberConnect® tactical arena has been developed specifically for stadiums, arenas and large-scale event locations where reliability must be maintained across extensive deployment areas. Designed for demanding live environments, it provides the performance and confidence required when every signal contributes to the production.

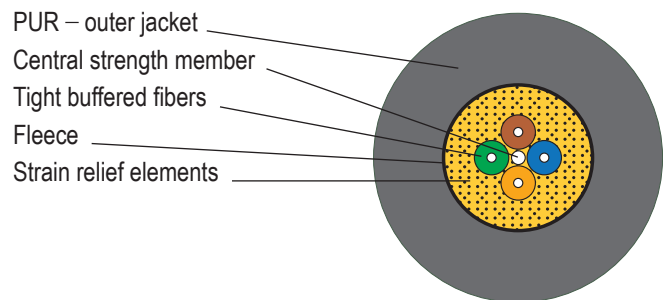
Built for the world's biggest stages.



Tactical arena cable 2–4 fibers

FiberConnect® A-V(ZN)11Y n... TB900L

-  Halogen-free
-  Oil-resistant
-  UV-resistant



Description

Flexible cable for moved application indoor and outdoor. For harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	Tight buffered fibers TB900L, outer diameter 0.9 mm
Strain relief elements	Aramid
Cable jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-55 °C to +85 °C
Installation	-55 °C to +85 °C
In use acc. to IEC 60794-1-2 F1	-55 °C to +85 °C

Fire performance

Halogen-free	acc. to IEC 60754-1
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Mechanical properties

Min. bending radius during assembly (dynamic)	
with additional tensile strain acc. to IEC 60794-1-2 E6	10 x outside diameter
Min. bending radius in moved application (dynamic)	
without additional tensile strain acc. to IEC 60794-1-2 E6	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1, short-term	see table
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	see table

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]	Max. tensile force [N]	Max. crush resistance [N/dm]
2	84951333####	A-V(ZN)11Y 2... TB900L	5.0	22	700	1,800
4	84951334####	A-V(ZN)11Y 4... TB900L	5.8	30	900	2,000

Tactical arena cable 12 fibers

FiberConnect® A-V(ZN)11Y 12... TB900L



Oil-resistant



UV-resistant

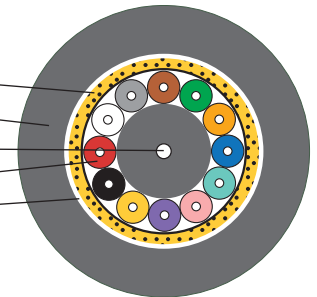
Strain relief elements

PUR – outer jacket

Central strength member

Tight buffered fibers

Tape



Description

Flexible cable for moved application indoor and outdoor. For harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	Tight buffered fibers TB900L, outer diameter 0.9 mm
Strain relief elements	Aramid
Cable jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-55 °C to +85 °C
Installation	-55 °C to +85 °C
In use	-55 °C to +85 °C

Fire performance

Halogen-free	acc. to IEC 60754-1
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Mechanical properties

Min. bending radius during assembly (dynamic)

with additional tensile strain acc. to IEC 60794-1-2 E6

10 x outside diameter

Min. bending radius in moved application (dynamic)

without additional tensile strain acc. to IEC 60794-1-2 E6

15 x outside diameter

Max. tensile force

acc. to IEC 60794-1-2 E1, short-term 2,000 N

Max. crush resistance

acc. to IEC 60794-1-2 E3, short-term 4,000 N/dm

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
12	84951352#	A-V(ZN)11Y 12... TB900L	8.2	60

Tactical arena cable 12 fibers for MPO connectors

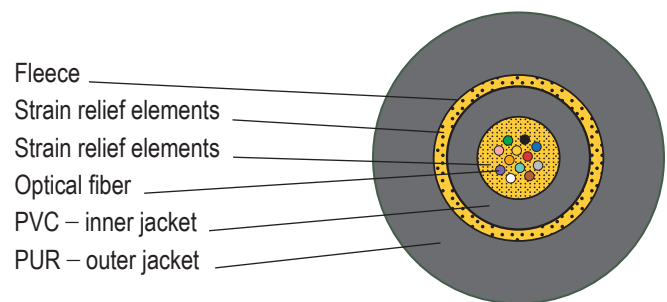
FiberConnect® A-F(ZN)Y(ZN)11Y 12...



Oil-resistant



UV-resistant



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.

For direct connector assembly and harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	12 optical fibers
Inner jacket	Polyvinyl chloride (PVC), wall thickness approx. 0.8 mm
Strain relief elements	Aramid
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-20 °C to +70 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-40 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	10 x outside diameter
Min. bending radius during assembly (dynamic)	
with additional tensile strain acc. to IEC 60794-1-2 E6	
	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	1,300 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
12	84951350#	A-F(ZN)Y(ZN)11Y 12...	7.0	45

Tactical arena cable 24 fibers for MPO connectors

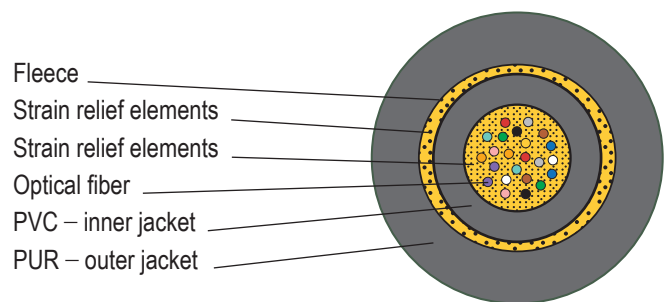
FiberConnect® A-F(ZN)Y(ZN)11Y 24...



Oil-resistant



UV-resistant



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.

For direct connector assembly and harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	24 optical fibers
Inner jacket	Polyvinyl chloride (PVC), wall thickness approx. 0.8 mm
Strain relief elements	Aramid
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-20 °C to +70 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-40 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	10 x outside diameter
Min. bending radius during assembly (dynamic)	
with additional tensile strain acc. to IEC 60794-1-2 E6	
	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	1,300 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
24	84951351#	A-F(ZN)Y(ZN)11Y 24...	7.0	43

Tactical arena cable 32 fibers for MPO connectors

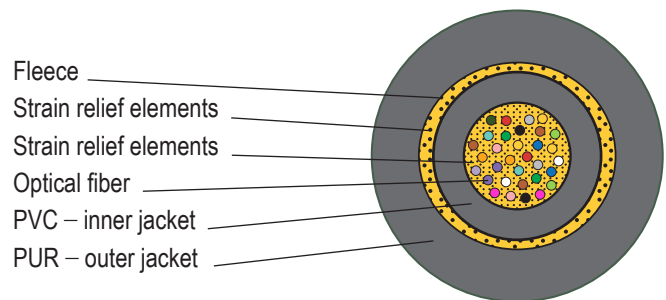
FiberConnect® A-F(ZN)Y(ZN)11Y 32...



Oil-resistant



UV-resistant



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.

For direct connector assembly and harsh industrial environment, with abrasion-resistant PUR jacket.

Design

Cable core	32 optical fibers
Inner jacket	Polyvinyl chloride (PVC), wall thickness approx. 0.7 mm
Strain relief elements	Aramid
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-20 °C to +70 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-40 °C to +85 °C

Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	10 x outside diameter
Min. bending radius during assembly (dynamic)	
with additional tensile strain acc. to IEC 60794-1-2 E6	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	1,200 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	5,000 N/dm

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
32	84951591#	A-F(ZN)Y(ZN)11Y 32...	7.0	43

Tactical arena cable 48 fibers for MPO connectors

FiberConnect® U-B(ZN)11Y 4 x 12... 1,8 JF

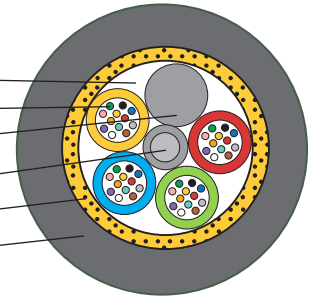


Oil-resistant



UV-resistant

Filler
 Optical fiber
 Unfilled loose tube
 Central strength member
 Strain relief elements
 PUR – outer jacket



Description

For fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections.

The outer jacket has a very high abrasion resistance.

Design

Cable core	Unfilled loose tube, outer diameter 1.8 mm with 12 optical fibers
Strain relief elements	Aramid
Outer jacket	Polyurethane (TPE-U)

Thermal properties

Transport and storage	-25 °C to +70 °C
Installation	-5 °C to +50 °C
In use acc. to IEC 60794-1-2 F1	-10 °C to +70 °C

Fire performance

Halogen-free	acc. to IEC 60754-1
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Mechanical properties

Min. bending radius fixed (static)	
acc. to IEC 60794-1-2 E11A	10 x outside diameter
Min. bending radius during assembly (dynamic)	
acc. to IEC 60794-1-2 E6	15 x outside diameter
Max. tensile force	
acc. to IEC 60794-1-2 E1	1,500 N
Max. crush resistance	
acc. to IEC 60794-1-2 E3, short-term	2,000 N/dm
acc. to IEC 60794-1-2 E3, long-term	600 N/dm

Standardization

IEC 60794-3

Order numbers

No. of fibers	Part number	Cable description	Outer diameter [mm]	Weight [kg/km]
48	84951592#	U-B(ZN)11Y 4 x 12... 1,8 JF	8.1	51

Trusted where communication cannot fail

From live broadcast production to mission-critical defense communications



One technology.

Two mission-critical worlds.

Whether on the battlefield or in a live production, communication networks must deliver maximum reliability under the most demanding conditions – without compromise.

WEINERT Fiber Optics provides the fiber optic infrastructure that keeps critical operations and live events connected.

Built for extreme conditions.

Our military-grade fiber optic solutions are engineered for harsh environments and continuous deployment. They withstand vibration, shock, dust, moisture, temperature variations and rough handling – ensuring secure data transmission when it matters most.

From mobile command posts and surveillance systems to naval platforms and rapid-deployment networks – our solutions perform where communication is crucial for mission success.

Engineered for flawless performance.

The same engineering principles that ensure secure communications in defense applications also guarantee flawless performance in broadcast environments.

Low attenuation, high bandwidth and robust mechanical design enable the transmission of high-resolution video, audio and control signals – from the studio to the stadium.

Whether for outside broadcasts, live events, remote productions or fixed installations: WEINERT solutions keep your signals stable, your workflow uninterrupted and your audience connected.

Cross-market expertise. Your advantage.

Decades of experience in mission-critical communication strengthen every fiber optic solution we deliver to the broadcast industry.

From defense to broadcast – our technology, your benefits.

Proven in military communication networks

Trusted performance in mission-critical operations worldwide.

Designed for extreme conditions

Reliable in vibration, shock, moisture, temperature and harsh environments.

Maximum uptime and signal integrity

High bandwidth. Low loss. Zero compromise.

Solutions for every deployment

Tactical field cables, deployable systems, vehicle and naval solutions.

Cross-market technology transfer

Defense-grade reliability for your broadcast business.

Why choose WEINERT



German excellence

Products designed, developed and made in Germany.



Integrated fiber production

Vertical integration into the value chain: The technology for the production of glass fibers, from the preform to the cable, comes from a single source.



State-of-the-art facilities

State-of-the-art production facilities in Germany.



Ethical commitment

Strong commitment to "business and human rights".



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No cultural barriers through direct know-how exchange with the R&D department.



Strategic sourcing

Best possible availability through forward-looking raw material sourcing.



Eco-friendly logistics

Sustainable, intelligent packing solutions and short distances.



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Agile family-owned business

Short decision-making paths, since we're a majority family-owned business.



Top-quality standards

Highest quality standards for telecom, medical and military.

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