

Outdoor cables

	Cable type	Page	Ordering key	Weight kg/km	Amount of fibers
	Non-armoured multi-fiber loose tube up to 24 fibers	100	12-.../BW(ZN)Y-...35 24-.../W(ZN)Y-...50	9,6 20	up to 12 up to 24
	ADSS loose tube up to 12 fibers	102	12-.../BW(ZN)Y-...G55	23	up to 12
	Glass-armoured multi-fiber loose tube up to 24 fibers	104	24-.../W(ZNG)Y-...70 24-.../W(ZNG)Y-...85 24-.../W(ZNG)Y-...120	63 63 135	up to 24 up to 24 up to 24
	Glass-armoured multi-fiber loose tube TWINTUBE, up to 24 fibers	106	24-.../W(ZNG)Y-...94	69	up to 24
	Glass-armoured multi-fiber loose tube up to 144 fibers	108	24-.../BWSN(ZNG)V-...96 48-.../BWSN(ZNG)V-...96 72-.../BWSN(ZNG)V-...106 96-.../BWSN(ZNG)V-...121 144-.../BWSN(ZNG)V-...176	84 84 97 130 194	up to 48 up to 48 up to 72 up to 96 up to 144
	Steel-armoured multi-fiber loose tube up to 24 fibers	110	24-.../W(ZN)YAY-...80	70	up to 24
	Steel-armoured multi-fiber loose tube TWINTUBE up to 24 fibers	110	24-.../W(ZNG)YAY-...125	152	up to 24
	Steel-armoured multi-fiber loose tube up to 72 fibers	112	48-.../BWSN(ZNG)VAV-...130 72-.../BWSN(ZNG)VAV-...140	179 185	up to 48 up to 72

p = passed

	Multi-fiber loose tube	Jacket Ø mm	Jacket material	Rodent protection	Tensile strength N	Crush resistance N/dm	Temperature range (in service) °C
	mini standard	3.5 5.0	PE PE		900 1000	3000 3000	-40 to +70 -40 to +70
	mini	5.5	PE		2800	5000	-40 to +70
	standard standard standard	7.0 8.5 12.0	PE PE PE	p p p	2000 3000 9000	5000 10 000 12 000	-40 to +70 -40 to +70 -40 to +70
	standard	8.8 × 9.4	PE	p	3000	8000	-20 to +70
	mini mini mini mini mini	9.6 9.6 10.6 12.2 14.5	PE PE PE PE PE	p p p p p	9000 9000 9000 9000 9000	6000 6000 6000 6000 6000	-40 to +70 -40 to +70 -40 to +70 -40 to +70 -40 to +70
	standard	8.0	PE	p	3000	4000	-40 to +70
	standard	12.5	PE	p	3000	8000	-20 to +70
	mini mini	13.0 14.0	PE PE	p p	9000 9000	8000 8000	-40 to +70 -40 to +70

Non-armoured multi-fiber loose tube cables – up to 24 fibers



Properties

- Metal free outdoor cable
- Strain relieved with aramide yarn
- For use in ducts and unprotected environment
- High chemical resistance against acids and alkalies
- Halogen free and non-corrosive fire gases

Applications

- Data cable in distribution networks
- For outdoor installations in humid and wet cable ducts

Design

Cable design	multi-fiber loose tube with 2 up to 24 fibers, jelly-filled
Strain relief	aramide yarn
Jacket material	PE
Jacket colour	black or colour coded

According to IEC 60794-1-2

Ordering information

up to 12-.../BW(ZN)V-...35	
up to 24-.../W(ZN)Y-...50	

Please see page 158.

Non-armoured multi-fiber loose tube cables – up to 24 fibers

Specification				
Jacket Ø	mm	3.5	5.0	
Number of fibers		2 to 12	2 to 24	
Multi fiber loose tube		mini	standard	
Approx. weight	kg/km	9.6	20	

Mechanical properties					
Tensile strength	during installation	N	900	1000	IEC 60794-1-2 E1
	in service	N	250	400	
Min. bend radius	during installation	mm	50	80	IEC 60794-1-2 E11
	in service	mm	35	50	
Crush resistance	short-term	N/dm	3000	3000	IEC 60794-1-2 E3
	long-term	N/dm	1000	1500	
Impact resistance	W _p = 1.4 J W _p = 2.21 J	impacts	50	50	IEC 60794-1-2 E4
Repeated bending	r = 35 mm/1 kg r = 50 mm/1 kg	cycles	5000	5000	IEC 60794-1-2 E6

Thermal properties					
Temperature range	during installation	°C	−10 to +50	−10 to +50	IEC 60794-1-22 F1
	in service	°C	−40 to +70	−40 to +70	
	in storage	°C	−40 to +70	−40 to +70	

Combustion properties				
Fire load	MJ/m	0.32	0.75	
2011/65/EC (RoHS)		compliant		

p = passed

ADSS¹⁾ – multi-fiber loose tube cables – up to 12 fibers



Properties

- Aerial use, self-supporting
- Extremely light weight cable construction
- Optimized diameter for easy installation
- Metal free outdoor cable
- Strain relieved with aramide yarn
- For high mechanical requirements
- Halogen free and non-corrosive fire gases
- Surface resistance properties

Applications

- Aerial use
- Self-supporting

Design

Cable design	multi-fiber loose tube with 2 up to 12 fibers, jelly-filled
Strain relief	aramide yarn
Jacket material	HDPE
Jacket colour	black

According to IEC 60794-1-2

Ordering information

up to 12-.../BW(ZN)V-...G55	
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Please see page 158.

Note: Installation material such as support-anchor (84137354) and dead-end-anchor's (84137353) are additionally available.

¹⁾ ADSS = All-Dielectric, Self-Supporting

ADSS – multi-fiber loose tube cables – up to 12 fibers

Specification			
Jacket Ø	mm	5.5	
Number of fibers		2 to 12	
Approx. weight	kg/km	23	

Mechanical properties				
Tensile strength	during installation	N	2800	IEC 60794-1-2 E1
	in service	N	1400	
Min. bend radius	during installation, 6 turns	mm	82.5	IEC 60794-1-2 E11
	in service, 6 turns	mm	55	
Crush resistance	short-term	N/dm	5000	IEC 60794-1-2 E3
	long-term	N/dm	3000	
Surface resistance			> 12 kV	EN 50305 § 6.6

Thermal properties				
Temperature range	during installation	°C	–25 to +60	IEC 60794-1-22 F1
	in service	°C	–40 to +70	
	in storage	°C	–40 to +70	

Combustion properties			
Fire load	MJ/m	0.81	
2002/95/EC (RoHS)		compliant	

Performance under load				
Span length m	sag %	sag m	wind load km/h	tensile load with wind load N
50	1.5	0.75	100	694
100		1.50		1387
150		2.25		2081
200		3.00		2774

Glass-armoured multi-fiber loose tube cables – up to 24 fibers



Properties

- Metal free outdoor cable
- Rodent protection, glass-armoured
- For use in ducts and in unprotected environment
- High chemical resistance against acids and alkalies
- For high mechanical and thermal stability
- Halogen free and non-corrosive fire gases
- Longitudinal and transversal watertight cable

Applications

- For installation directly in the ground and in mechanically unprotected environments
- Data cable in distribution networks
- For installation outdoor, in wet cable ducts and pipes

Design

Cable design	multi-fiber loose tube with 2 up to 24 fibers, jelly-filled
Strain relief and rodent protection	glass-roving
Jacket material	PE
Jacket colour	black

According to IEC 60794-1-2

Ordering information

up to 24-.../W(ZNG)Y-...70	
up to 24-.../W(ZNG)Y-...85	
up to 24-.../W(ZNG)Y-...120	

Please see page 158, 159.

Glass-armoured multi-fiber loose tube cables – up to 24 fibers

Specification						
Jacket Ø	mm	7.0	8.5	12.0		
Number of fibers each bundle		2 to 24	2 to 24	2 to 24		
Multi fiber loose tube		standard	standard	standard		
Approx. weight	kg/km	42	62	135		

Mechanical properties						
Tensile strength	during installation	N	2000	3000	12 000	IEC 60794-1-2 E1
	in service	N	1200	1500	6000	
Min. bend radius	during installation	mm	110	130	180	IEC 60794-1-2 E11
	in service	mm	70	80	120	
Crush resistance	short-term	N/dm	5000	10 000	12 000	IEC 60794-1-2 E3
	long-term	N/dm	2000	3000	6000	
Impact resistance	W _p = 4.41 J W _p = 4.5 J	impacts	10	30	100	IEC 60794-1-2 E4
Repeated bending	r = 80 mm r = 120 mm	cycles	3000	5000	5000	IEC 60794-1-2 E6
Torsion	± 1440° ± 360°	cycles	3	3	3	IEC 60794-1-2 E7
Water penetration	h = 1 m, 24 h, p < 3 m		p	p	p	IEC 60794-1-2 F5B

Thermal properties						
Temperature range	during installation	°C	–10 to +50	–10 to +50	–10 to +50	IEC 60794-1-22 F1
	in service	°C	–40 to +70	–40 to +70	–40 to +70	
	in storage	°C	–40 to +70	–40 to +70	–25 to +70	

Combustion properties						
Fire load	MJ/m	1.3	1.6	3.4		
2011/65/EC (RoHS)		compliant				

p = passed

Glass-armoured multi-fiber loose tube cables

TWINTUBE - up to 24 fibers



Properties

- Metal free outdoor cable
- Rodent-protected, glass-armoured
- For use in ducts and unprotected environment
- Ripcord for easy jacket removal
- High chemical resistance against acids and alkalies
- Halogen free and non-corrosive fire gases
- Longitudinal and transversal watertight cable

Applications

- For installations directly in the ground and in mechanically unprotected environments
- Data cable in distribution networks
- For installation outdoor, in wet cable ducts and pipes

Design

Cable design	2 multi-fiber loose tubes, jelly-filled with up to 2 × 12 fibers 2 ripcords
Strain relief and rodent protection	glass-roving
Jacket material	PE
Jacket colour	black

According to IEC 60794-1-2

Ordering information

up to 24-.../W(ZNG)Y-...94	
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Please see page 160.

Glass-armoured multi-fiber loose tube cables

TWINTUBE – up to 24 fibers

Specification			
Jacket Ø	mm	8.8 × 9.4	
Number of fibers		2 x 12	2 up to 12 fibers
Approx. weight	kg/km	69	

Mechanical properties				
Tensile strength	during installation	N	3000	IEC 60794-1-2 E1
	in service	N	1500	
Min. bend radius	during installation	mm	150 ¹⁾	IEC 60794-1-2 E11
	in service	mm	100 ¹⁾	
Crush resistance	short-term	N/dm	8000 ¹⁾	IEC 60794-1-2 E3
	long-term	N/dm	4000 ¹⁾	
Repeated bending	r = 150 mm, weight = 5 kg	cycles	5000 ¹⁾	IEC 60794-1-2 E6
Water penetration	h = 1 m, 24 h, p < 3 m		p	IEC 60794-1-2 F5B

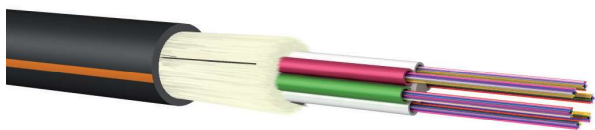
Thermal properties				
Temperature range	during installation	°C	–10 to +50	IEC 60794-1-22 F1
	in service	°C	–20 to +70	
	in storage	°C	–40 to +70	

Combustion properties			
Fire load	MJ/m	1.8	
2011/65/EC (RoHS)		compliant	

p = passed

¹⁾ refers to the flat side of the cable

Glass-armoured multi-fiber loose tube cables – up to 144 fibers



Properties

- Metal free outdoor cable
- Rodent protection, glass-armoured
- For use in ducts and unprotected environment
- Ripcord for easy jacket removal
- High chemical resistance against acids and alkalies
- Halogen free and non-corrosive fire gases
- Longitudinal and transversal watertight cable

Applications

- For installation directly in the ground and in mechanically unprotected environments
- Data cable in distribution networks
- For installation outdoor, in wet cable ducts and pipes

Design

Cable design	4 to 12 multi-fiber loose tube, jelly-filled with 2 to 12 fibers strength member 2 ripcords
Strain relief and rodent protection	glass-rovng
Jacket material	PE
Jacket colour	black with 2 orange stripes

According to IEC 60794-1-2

Ordering information

24-.../BWSN(ZNG)V-...96	
48-.../BWSN(ZNG)V-...96	
72-.../BWSN(ZNG)V-...106	
96-.../BWSN(ZNG)V-...122	
144-.../BWSN(ZNG)V-...145	

Please see page 160.

Glass-armoured multi-fiber loose tube cables – up to 144 fibers

Specification		4	6	8	12	
Fiber up to		24/48	72	96	144	
Jacket Ø	mm	9.6	10.6	12.2	14.5	
Multi fiber loose tube		mini	mini	mini	mini	
Approx. weight	kg/km	84	97	121	176	

Mechanical properties							
Tensile strength	during installation	N	9000	9000	9000	9000	IEC 60794-1-2 E1
	in service	N	4000	4000	4000	4000	
Min. bend radius	during installation	mm	140	160	180	220	IEC 60794-1-2 E11
	in service	mm	100	110	120	150	
Crush resistance	short-term	N/dm	6000	6000	6000	6000	IEC 60794-1-2 E3
	long-term	N/dm	3000	3000	3000	3000	
Impact resistance	Wp = 2.21 J	impacts	50	50	50	50	IEC 60794-1-2 E4
Water penetration	h = 1 m, 24 h, p < 3 m		p	p	p	p	IEC 60794-1-2 F5B

Thermal properties				
Temperature range	during installation	°C	−10 to +50	IEC 60794-1-22 F1
	in service	°C	−40 to +70	
	in storage	°C	−40 to +70	

Combustion properties							
Fire load	MJ/m	2.1	2.5	3.3	4.7		
2011/65/EC (RoHS)		compliant					

p = passed

Steel-armoured multi-fiber loose tube cables – Simplex and TWINTUBE



Simplex – up to 24 fibers



TWINTUBE – up to 24 fibers

Properties

- Steel-armoured outdoor cable
- Rodent-protected (steel-armoured)
- High chemical resistance against acids and alkalies
- Halogen free and non-corrosive fire gases

Applications

- For outdoor installations and in mechanically unprotected environments
- Data cable in distribution networks
- For installations directly in the ground

Design

Cable design	1 to 2 multi-fiber loose tubes, jelly-filled with 2 to 24 fibers
Strain relief	aramid yarn/glass-roving
Rodent protection	steel-armoured
Jacket material	PE
Jacket colour	black

According to IEC 60794-1-2

Ordering information

up to 24-.../W(ZN)YAY-...80	
up to 24-.../W(ZNG)YAY-...125	

Please see page 161.

Steel-armoured multi-fiber loose tube cables – Simplex and TWINTUBE

Specification		Simplex	TWINTUBE	
Jacket Ø	mm	8.0	12.5	
Numbers of fibers		24	2 × 12	
Multi-fiber loose tube		standard	standard	
Approx. weight	kg/km	70	152	

Mechanical properties					
Tensile strength	during installation	N	3000	3000	IEC 60794-1-2 E1
	in service	N	1500	1500	
Min. bend radius	during installation	mm	120	190*	IEC 60794-1-2 E11
	in service	mm	80	125*	
Crush resistance	short-term	N/dm	4000	8000*	IEC 60794-1-2 E3
	long-term	N/dm	2000	4000*	
Impact resistance	Wp = 4.41 J	impacts	50		IEC 60794-1-2 E4
	Wp = 15 J	impacts		3	

Thermal properties					
Temperature range	during installation	°C	−10 to +50	−10 to +50	IEC 60794-1-22 F1
	in service	°C	−40 to +70	−20 to +70	
	in storage	°C	−40 to +70	−40 to +70	

Combustion properties				
Fire load	MJ/m	1.78	3.51	
2011/65/EC (RoHS)		compliant		

p = passed

* refers to the flat side of the cable

Steel-armoured multi-fiber loose tube cables – up to 72 fibers



Properties

- Steel-armoured outdoor cable
- Rodent-protected (steel-armoured)
- For use in ducts and unprotected environment
- Halogen free and non-corrosive fire gases

Applications

- For outdoor installations and in mechanically unprotected environments
- Data cable in distribution networks
- For installation directly in the ground

Design

Cable design	4 to 6 multi-fiber loose tubes, jelly-filled with 2 to 12 fibers strength member 2 ripcords
Strain relief	glass-roving
Rodent protection	steel-armoured
Jacket material	PE
Jacket colour	black

According to IEC 60794-1-2

Ordering information

24-.../BWSN(ZNG)VAV-...130	
48-.../BWSN(ZNG)VAV-...130	
72-.../BWSW(ZNG)VAV-...140	

Please see page 161

Steel-armoured multi-fiber loose tube cables – up to 72 fibers

Specification		4	6	
Jacket Ø	mm	13.0	14.0	
Fiber quantity up to		24/48	72	
Multi-fiber loose tube		mini	mini	
Approx. weight	kg/km	173	185	

Mechanical properties					
Tensile strength	during installation	N	9000	9000	IEC 60794-1-2 E1
	in service	N	4000	4000	
Min. bend radius	during installation	mm	200	210	IEC 60794-1-2 E11
	in service	mm	130	140	
Crush resistance	short-term	N/dm	6000	6000	IEC 60794-1-2 E3
	long-term	N/dm	3000	3000	
Impact resistance	Wp = 2.21 J	impacts	50	50	IEC 60794-1-2 E4

Thermal properties				
Temperature range	during installation	°C	–10 to +50	IEC 60794-1-22 F1
	in service	°C	–40 to +70	
	in storage	°C	–40 to +70	

Combustion properties					
Fire load	MJ/m	4.0	4.4		
2011/65/EC (RoHS)		compliant			

p = passed

Order information for outdoor cables

Non-armoured multi-fiber loose tube cable – up to 12 fibers

with PE jacket 3.5 mm



Item no.	Cable type	Description
tbd	04-4E9/BW(ZN)V-G35	4-fiber, 9/125 µm acc.G.652.D, Ø 3.5 mm, jacket HDPE black
84098852	12-12E9/BW(ZN)V-G35	12-fiber, 9/125 µm acc.G.652.D, Ø 3.5 mm, jacket HDPE black

Non-armoured multi-fiber loose tube cables – up to 24 fibers

with PE jacket 5.0 mm



Item no.	Cable type	Description
84150182	04-4E9/W(ZN)Y-G50	4-fiber, 9/125 µm acc.G.652.D, Ø 5.0 mm, jacket LDPE black
22520723	04-4G50/W(ZN)Y-G50	4-fiber, 50/125 µm OM2, Ø 5.0 mm, jacket LDPE black
22520687	04-4G62/W(ZN)Y-G50	4-fiber, 62.5/125 µm OM1, Ø 5.0 mm, jacket LDPE black
84150184	08-8E9/W(ZN)Y-G50	8-fiber, 9/125 µm acc.G.652.D, Ø 5.0 mm, jacket LDPE black
22520688	08-8G50/W(ZN)Y-G50	8-fiber, 50/125 µm OM2, Ø 5.0 mm, jacket LDPE black
22520740	08-8G62/W(ZN)Y-G50	8-fiber, 62.5/125 µm OM1, Ø 5.0 mm, jacket LDPE black
84150192	12-12E9/W(ZN)Y-G50	12-fiber, 9/125 µm acc.G.652.D, Ø 5.0 mm, jacket LDPE black
22521250	12-12G50/W(ZN)Y-G50	12-fiber, 50/125 µm OM2, Ø 5.0 mm, jacket LDPE black
22521251	12-12G62/W(ZN)Y-G50	12-fiber, 62.5/125 µm OM1, Ø 5.0 mm, jacket LDPE black
85001052	24-24E9/W(ZN)Y-G50	24-fiber, 9/125 µm acc.G.652.D, Ø 5.0 mm, jacket LDPE black

ADSS multi-fiber loose tube cables – up to 12 fibers

with PE jacket 5.5 mm



Item no.	Cable type	Description
84098041	12-12E9/BW(ZN)V-G55	12-fiber, 9/125 µm acc.G.652.D, Ø 5.5 mm, jacket HDPE black
84146319	12-12G50/BW(ZN)V-G55	12-fiber, 50/125 µm OM2, Ø 5.5 mm, jacket HDPE black

Glass-armoured multi-fiber loose tube cables – up to 24 fibers

with PE jacket 7.0 mm



Item no.	Cable type	Description
tbd	12-12E9/W(ZNG)Y-G70	12-fiber, 9/125 µm acc.G.652.D, Ø 7.0 mm, jacket LDPE black
tbd	24-24E9/W(ZNG)Y-G70	24-fiber, 9/125 µm acc.G.652.D, Ø 7.0 mm, jacket LDPE black

Order information for outdoor cables

Glass-armoured multi-fiber loose tube cables – up to 24 fibers
with PE jacket 8.5 mm



Item no.	Cable type	Description
22521811	02-2G50/W(ZNG)Y-G85	2-fiber, 50/125 µm OM2, Ø 8.5 mm, jacket LDPE black
22521749	02-2G62/W(ZNG)Y-G85	2-fiber, 62.5/125 µm OM1, Ø 8.5 mm, jacket LDPE black
22523652	02-2H200/W(ZNG)Y-G85	2-fiber, HCS 200/230/500 µm, Ø 8.5 mm, jacket LDPE black
22523661	04-4E9/W(ZNG)Y-G85	4-fiber, 9/125 µm acc.G.652.D, Ø 8.5 mm, jacket LDPE black
22521750	04-4G50/W(ZNG)Y-G85	4-fiber, 50/125 µm OM2, Ø 8.5 mm, jacket LDPE black
22521751	04-4G62/W(ZNG)Y-G85	4-fiber, 62.5/125 µm OM1, Ø 8.5 mm, jacket LDPE black
22523653	04-4H200/W(ZNG)Y-G85	4-fiber, HCS 200/230/500 µm, Ø 8.5 mm, jacket LDPE black
22521752	06-6G50/W(ZNG)Y-G85	6-fiber, 50/125 µm OM2, Ø 8.5 mm, jacket LDPE black
22521753	06-6G62/W(ZNG)Y-G85	6-fiber, 62.5/125 µm OM1, Ø 8.5 mm, jacket LDPE black
23017688	08-8E9/W(ZNG)Y-G85	8-fiber, 9/125 µm acc.G.652.D, Ø 8.5 mm, jacket LDPE black
22521754	08-8G50/W(ZNG)Y-G85	8-fiber, 50/125 µm OM2, Ø 8.5 mm, jacket LDPE black
22521755	08-8G62/W(ZNG)Y-G85	8-fiber, 62.5/125 µm OM1, Ø 8.5 mm, jacket LDPE black
22521756	12-12E9/W(ZNG)Y-G85	12-fiber, 9/125 µm acc.G.652.D, Ø 8.5 mm, jacket LDPE black
22521757	12-12G50/W(ZNG)Y-G85	12-fiber, 50/125 µm OM2, Ø 8.5 mm, jacket LDPE black
23027099	12-12G50/W(ZNG)Y-G85-F	12-fiber, 50/125 µm OM3 BendOptimized, Ø 8.5 mm, jacket LDPE black
22521758	12-12G62/W(ZNG)Y-G85	12-fiber, 62.5/125 µm OM1, Ø 8.5 mm, jacket LDPE black
84024359	24-24E9/W(ZNG)Y-G85	24-fiber, 9/125 µm acc.G.652.D, Ø 8.5 mm, jacket LDPE black
84024360	24-24G50/W(ZNG)Y-G85	24-fiber, 50/125 µm OM2, Ø 8.5 mm, jacket LDPE black
85010701	24-24G50/W(ZNG)Y-G85-F	24-fiber, 50/125 µm OM3 BendOptimized, Ø 8.5 mm, jacket LDPE black

Glass-armoured multi-fiber loose tube cables – up to 24 fibers
with PE jacket 12 mm



Item no.	Cable type	Description
22523657	12-12E9/W(ZNG)Y-Z120	12-fiber, 9/125 µm acc.G.652.D, Ø 12.0 mm, jacket LDPE black with 2 orange stripes
22523655	12-12G50/W(ZNG)Y-Z120	12-fiber, 50/125 µm OM2, Ø 12.0 mm, jacket LDPE black with 2 orange stripes
22523656	12-12G62/W(ZNG)Y-Z120	12-fiber, 62.5/125 µm OM1, Ø 12.0 mm, jacket LDPE black with 2 orange stripes
84072782	24-24E9/W(ZNG)Y-Z120	24-fiber, 9/125 µm acc.G.652.D, Ø 12.0 mm, jacket LDPE black with 2 orange stripes

Order information for outdoor cables

TWINTUBE glass-armoured multi-fiber loose tube cables – up to 24 fibers
with PE jacket 9.4 mm



Item no.	Cable type	Description
23038137	24-12E9/W(ZNG)Y-G94	24-fiber, 9/125 µm acc.G.652.D, Ø 9.4 mm, jacket LDPE black
23038138	24-12G50/W(ZNG)Y-G94	24-fiber, 50/125 µm OM2, Ø 9.4 mm, jacket LDPE black
23041030	24-12G50/W(ZNG)Y-G94-F	24-fiber, 50/125 µm OM3 BendOptimized, Ø 9.4 mm, jacket LDPE turquoise
84118482	24-12G50/W(ZNG)Y-G94-G	24-fiber, 50/125 µm OM4 BendOptimized, Ø 9.4 mm, jacket LDPE black
23041031	24-12G62/W(ZNG)Y-G94	24-fiber, 62.5/125 µm OM1, Ø 9.4 mm, jacket LDPE black

Glass-armoured multi-fiber loose tube cables – up to 144 fibers
with PE jacket



Item no.	Cable type	Description
85030052	24-12E9/BWSN(ZNG)V-G96	24-fiber, 9/125 µm acc.G.652.D, Ø 9.6 mm, jacket HDPE black
85022307	48-12E9/BWSN(ZNG)V-G96	48-fiber, 9/125 µm acc.G.652.D, Ø 9.6 mm, jacket HDPE black
85025379	72-12E9/BWSN(ZNG)V-G106	72-fiber, 9/125 µm acc.G.652.D, Ø 10.6 mm, jacket HDPE black
85025378	96-12E9/BWSN(ZNG)V-G122	96-fiber, 9/125 µm acc.G.652.D, Ø 12.2 mm, jacket HDPE black
85025390	120-12E9/BWSN(ZNG)V-G136	120-fiber, 9/125 µm acc.G.652.D, Ø 13.6 mm, jacket HDPE black
85025391	144-12E9/BWSN(ZNG)V-G145	144-fiber, 9/125 µm acc.G.652.D, Ø 14.5 mm, jacket HDPE black

Order information for outdoor cables

Steel-armoured multi-fiber loose tube cables – up to 24 fibers
with PE jacket 8.0 mm



Item no.	Cable type	Description
84144111	04-4G50/W(ZN)YAY-G80	4-fiber, 50/125 µm OM2, Ø 8.0 mm, jacket LDPE black
85023197	04-4G62/W(ZN)YAY-G80	4-fiber, 62.5/125 µm OM1, Ø 8.0 mm, jacket LDPE black
84092334	06-6G50/W(ZN)YAY-G80	6-fiber, 50/125 µm OM2, Ø 8.0 mm, jacket LDPE black
84145972	08-8G62/W(ZN)YAY-G80	8-fiber, 62.5/125 µm OM1, Ø 8.0 mm, jacket LDPE black
22523660	12-12E9/W(ZN)YAY-G80	12-fiber, 9/125 µm acc.G.652.D, Ø 8.0 mm, jacket LDPE black
22523658	12-12G50/W(ZN)YAY-G80	12-fiber, 50/125 µm OM2, Ø 8.0 mm, jacket LDPE black
22523659	12-12G62/W(ZN)YAY-G80	12-fiber, 62.5/125 µm OM1, Ø 8.0 mm, jacket LDPE black
tbd	24-24E9/W(ZN)YAY-G80	24-fiber, 9/125 µm acc.G.652.D, Ø 8.0 mm, jacket LDPE black

TWINTUBE steel-armoured multi-fiber loose tube cables – up to 24 fibers
with PE jacket 12.5 mm



Item no.	Cable type	Description
tbd	24-12E9/W(ZNG)YAY-G125	24-fiber, 9/125 µm acc.G.652.D, Ø 12.5 mm, jacket LDPE black
85030532	24-12G50/W(ZNG)YAY-D125	24-fiber, 50/125 µm OM2, Ø 12.5 mm, jacket LDPE orange
85032029	24-12G62/W(ZNG)YAY-G125	24-fiber, 62.5/125 µm OM1, Ø 12.5 mm, jacket LDPE black

Steel-armoured multi-fiber loose tube cables – up to 72 fibers
with PE jacket



Item no.	Cable type	Description
85030101	48-12E9/BWSN(ZNG)VAV-G130	48-fiber, 9/125 µm acc.G.652.D, Ø 13.0 mm, jacket HDPE black
85030102	72-12E9/BWSN(ZNG)VAV-G140	72-fiber, 9/125 µm acc.G.652.D, Ø 14.0 mm, jacket HDPE black