

General

Technical Specifications of Fiber Optic Cables

	Plastic Optical Fiber Large	Core Diameter Glass Optical Fiber	Glass fiber		
	multimode	multimode	multimode	multimode	multimode
fiber type	step type	step type	Gradient type	Gradient type	Step type
Core/Cladding Diameter (μm)	980/1000	200/230	50/125	62.5/125	9/125
1st Layer Diameter Buffer Tube (μm)	2200	500	250	250	250
Numerical aperture	0.5	0.37	0.20	0.275	-
Attenuation coefficient db/km					
650nm	180	10	-	-	-
850nm	2000	8	¥3.00	¥3.50	-
1300nm	-	-	¥0.70	¥0.80	¥0.40
Wavelength type (nm)	660	660/820	850/1300	850/1300	1300

## FOF Cable General Technical Data

	POF	200/230-Fiber	Glass-Fiber		
	Multimode	Multimode	Multimode	Multimode	Multimode
Fiber Type	Step index	Step index	Graded index	Graded index	Step index
Core / cladding diameter in μm	980/1000	200/230	50/125	62.5/125	9/125
Diameter of first buffer tube in μm	2200	500	250	250	250
Numerical aperture	0.5	0.37	0.20	0.275	-
Attenuation coefficient a in dB/km					
at 650nm	180	10	-	-	-
at 850nm	2000	8	¥3.00	¥3.50	-
at 1300nm	-	-	¥0.70	¥0.80	¥0.40
Typ. wave length in nm	660	660/820	850/1300	850/1300	1300

\*POF = polymer optical fiber

\*POF=Polymer-Optical-Fiber



## POF Cable/

POF optical cable

Plastic Fiber (POF*) Indoor Plastic Fiber (POF*) Indoor		
Sketch/Dimension	Description /Description	Art.-No.
	<b>POF* fiber without coating</b> pof* fiber without coating	
	250μm	
	500μm	
	750μm	
	1000μm	
	1200μm	
	1500μm	
	2000μm	
	2500μm	
	3000μm	
<b>(POF*) cable simplex</b> (POF*) Fiber Single Core		
Sketch /Dimension	Description /Description	Art.-No.
	PE coating black 1mm, fiber 0.5mm PE sheath black 1mm, fiber 0.5mm	
	PE coating black 2.2mm, fiber 0.5mm PE sheath black 2.2mm, fiber 0.5mm	
	PE coating black 2.2mm, fiber 0.75mm PE sheath black 2.2mm, fiber 0.75mm	
	PE coating black 1.25mm, fiber 1.0mm PE sheath black 1.25mm, fiber 1.0mm	
	PE coating black/white 1.35mm, fiber 1.0mm PE sheath black/white 1.35mm, fiber 1.0mm	
	PE coating black 1.5mm, fiber 1.0mm PE sheath black 1.5mm, fiber 1.0mm	
	PE coating black 2.2mm, fiber 1.0mm PE sheath black 2.2mm, fiber 1.0mm	
	PE coating black 2.2mm, fiber 1.5mm PE sheath black 2.2mm, fiber 1.5mm	

Can be further customized according to the requirements/can be further customized according to the requirements

\*POF=Polymer-Optical-Fiber/\*POF = Polymer Optical Fiber

**POF Cable/**

POF optical cable

Plastic Fiber (POF*) Indoor Plastic Fiber (POF*) Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	PE coating black 2.2mm, fiber 1.0mm, UL listed	
	PA coating black 2.2mm, fiber 1.0mm PA sheath black 2.2mm, fiber 1.0mm	
	PE coating white 1.85mm, fiber 1.5mm PE sheath white 1.85mm, fiber 1.5mm	
	PE coating black 2.5mm, fiber 1.5mm	
	PE coating black 2.7mm, fiber 2mm PE sheath black 2.7mm, fiber 2mm	
	PE coating black 3.8mm, fiber 2mm PE sheath black 3.8mm, fiber 2mm	
	PVC coating black 3.5mm, fiber 2.5mm	
	PVC coating black 4.5mm, fiber 3mm	
	PVC coating black 5mm, fiber 4mm PVC sheath black 5mm, fiber 4mm	
	PVC coating black 6.3mm, fiber 5mm	
	PVC coating black 7.5mm, fiber 6mm	
	PVC coating black 11mm, fiber 8mm PVC sheath black 11mm, fiber 8mm	
	PVC coating black 13mm, fiber 10mm PVC sheath black 13mm, optical fiber 10mm	
	PVC coating black 14mm, fiber 12mm PVC sheath black 14mm, optical fiber 12mm	

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**POF Cable/**

POF optical cable

Plastic Fiber (POF*) Indoor Plastic Fiber (POF*) Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	PVC coating black 17.3mm, fiber 14mm	
	PVC coating black 18mm, fiber 16mm PVC sheath black 18mm, optical fiber 16mm	
	PVC coating black 20mm, fiber 18mm PVC sheath black 20mm, fiber 18mm	
	PA coating black 1.5*orange 2.3mm, fiber 1.0mm	
	PVC coating black 2.2*orange 3.8mm, fiber 1.0mm	
	PVC coating black 2.2* 4.0mm, fiber 1.0mm PVC sheath black 2.2*4.0mm, fiber 1.0mm	
	PVC coating orange 2.2*5.0mm, fiber 1.0mm	
	PVC coating black 2.2*6.0mm, fiber 1.0mm PVC sheath black 2.2*6.0mm, fiber 1.0mm	
	PVC coating orange Fireproof 2.2*6.0mm, fiber 1.0mm	
	<b>POF cable simplex for SERCOS interface POF</b> simplex optical cable for SERCOS interface	
	PUR outer jacket red 3.6mm ,pmma 1.0*2.2mm with strenght member	
	PUR outer jacket red 6.0mm ,pmma 1.0*2.2mm with strenght member	

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**POF Cable/**

POF optical cable

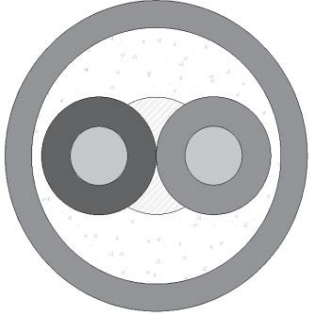
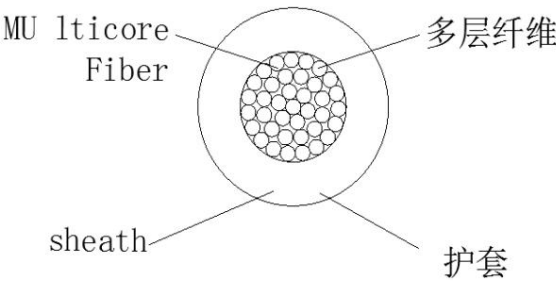
Plastic Fiber (POF*) Indoor Plastic Fiber (POF*) Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	<p>Kato Crane cable 1.0*2.2*Kaofla*3.65mm Kato crane wire 1.0*2.2*Kevlar*3.65mm</p>	
	<p>PVC Gray Jacket 5mm, Pmma fiber 1mm *PE Jacket 2.2mm*armor3.2mm *Kevlar*braid</p> <p>PVC gray sheath 5mm, Pmma 1mm optical fiber *PE inner sheath 2.2mm *armor3.2mm *Kevlar*braiding</p>	
	<p>PU black Jacket 8mm, Pmma fiber 1mm *PE Jacket 2.2mm*armor3.2mm *Kevlar(250kg)*braid</p> <p>PU sheath black 8.0mm, PMMA 1mm*PE inner sheath 2.2mm*spiral steel tape armor 3.2mm,*Kevlar (250KG)*tinned copper wire braid</p>	
	<p>PU black Jacket 6mm, Pmma fiber 1mm *PE Jacket 2.2mm*armor3.2mm *Kevlar*braid</p> <p>*PU sheath black 6.0mm, PMMA 1mm fiber *PE inner sheath 2.2mm *Spiral steel tape armor 3.2mm *Kevlar (conventional) *Tinned copper wire braid</p>	
	<p><b>POF cable duplex</b> POF Duplex Optical Cable</p>	
	<p>PE jacket black, 1x2mm fiber 0.5mm PE jacket black, 1x2mm fiber 0.5mm</p>	
	<p>PE jacket black, 2.2x4.4mm fiber 1mm PE jacket black, 2.2x4.4mm fiber 1mm</p> <p>PE jacket black, 2.2x4.4mm fiber 1mm with mark PE jacket black, 2.2x4.4mm fiber 1mm with white mark</p>	
	<p>PVC coating black 6.0mm, dual core 1.0*2.2*4.4mm</p>	

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**POF Cable/**

POF optical cable

<b>Plastic Fiber (POF*) Indoor Plastic Fiber (POF*) Indoor</b>	
	PVC coating gray 6.0mm, dual core 1.0*2.2*4.4mm with Kevlar  PVC sheath gray 6.0mm, double core 1.0*2.2*4.4mm with armored pulley
	PU coating orange 6.0mm, dual core 1.0*2.2*4.4*with Kevlar  PU sheath orange 6.0mm, double core 1.0*2.2*4.4* with armored Fula
	<b>POF multicore cable simplex</b> POF multi-core simplex cable single
	PE jacket black, bundle 0.25*4 cores PE jacket black, bundle 0.25*4 cores
	PE jacket black, bundle 0.25*8 cores PE jacket black, bundle 0.25*8 cores
	PE jacket black, bundle 0.25*9 cores PE jacket black, bundle 0.25*9 cores
	PE jacket black, bundle 0.25*10 cores PE jacket black, bundle 0.25*10 cores
	PE jacket black, bundle 0.25*16 cores PE jacket black, bundle 0.25*16 cores
	PE jacket black, bundle 0.25*32 cores PE jacket black, bundle 0.25*32 cores
	PE jacket black, bundle 0.25*64cores PE jacket black, bundle 0.25*64 cores
	PE jacket black, 2.2mm, bundle 151cores, fiber 1mm PE sheath black, 2.2mm 151 cores, 1mm optical fiber
	PE jacket black, 2.2mm, bundle 217 cores, fiber1mm PE sheath black, 2.2mm 217 cores, 1mm optical fiber

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**POF Cable/**

POF optical cable

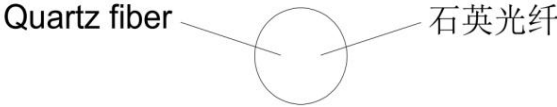
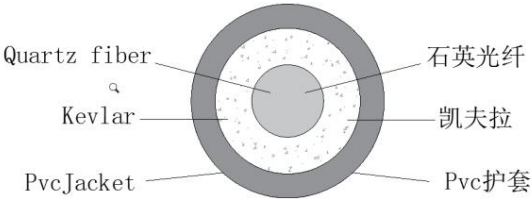
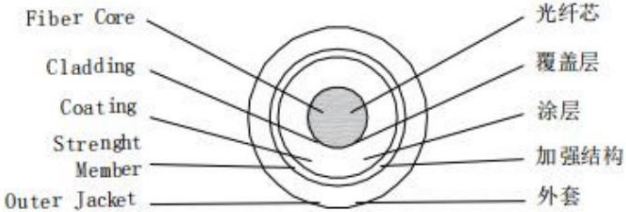

Plastic Fiber (POF*) Indoor Plastic Fiber (POF*) Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	<b>POF cable duplex round with strain relief</b> POF duplex fiber optic cable with tension	
	PUR jacket red, 6.0mm I-V11Y 2Y2P 980/1000 160A 10 RT	
	PUR sheath red, 6.0mm I-V11Y 2Y2P 980/1000 160A 10RT	
	PUR jacket violet, 6.0mm HEAVY I-V11Y 4Y2P 980/1000 160A 10 VI	
	PUR Sheath Violet, 6.0mm Heavy I-V11Y 4Y2P 980/1000 160A 10 VI	
	PUR jacket red, 6.4mm flexible, drag chain usable I-V11Y 2Y2P 980/1000 250A 10 RT  PUR sheath red, 6.4 mm, flexible drag chain available I-V11Y 2Y2P 980/1000 250A 10 RT	
PUR jacket violet, 8.0mm HEAVY I-V11Y 4Y2P 980/1000 230A 10 VI  PUR Sheath Violet, 8.0mm Heavy I-V11Y 4Y2P 980/1000 230A 10 VI		
	PUR jacket black, 9.0mm with wire netting, UV resistant PUR jacket black, 9.0mm with wire netting, UV resistant	
	<b>POF hybrid cable</b> POF hybrid cable	
	PUR Jacket, 10.6mm, 2 LWL/4x1.5 Cu DESINA I-V11Y 4Y2P 980/1000 230A 10 FFLIY 4x1.5 300/300V VI  PUR sheath, 10.6mm, 2 LWL/4x1.5 Cu Desina I-V11Y 4Y2P 980/1000 230A 10 FFLIY 4X1.5 300/300V V	
	PUR jacket, 11mm, 1 LWL/6x1 Cu I-V11Y 2Y1P 980/1000 250A 10 FFLIY 6x1 300/300V SW  PUR sheath, 11mm, 1 LWL/6x1 Cu I-V11Y 2Y1P 980/1000 250A 10 Ffliy 6x1 300/300V SW	

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**POF Cable/**

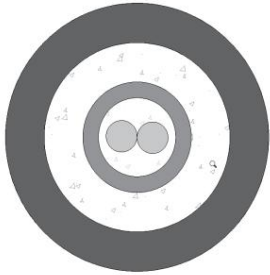
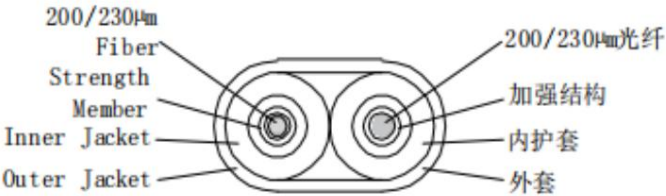
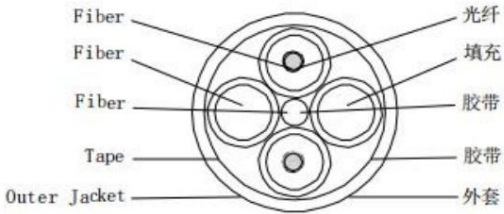
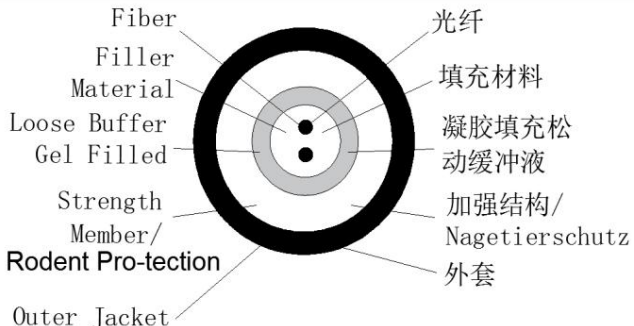
POF optical cable

FO 200/230µm Indoor Cable, simplex FO 200/230µm indoor cable, simplex		
Sketch /Dimension	Description /Description	Art.-No.
	200/230/500 Fiber Optic Na0.37 quartz fiber 200/230/500 Fiber optic NA0.37 quartz fiber	
	400/440/590/880um Quartz fiber 400/440/590/880um quartz fiber	
	1000/1100UM/1350/1800um Quartz fiber 1000/1100UM/1350/1800um quartz fiber	
	HPCS 1.0*2.2mm (200/230um) single core quartz fiber HPCS 1.0*2.2mm (200/230um) single core quartz fiber	
	EVA jacket orange, 2.9mm I-VH 1K 200/230 10A17+ 8B20 OR  EVA jacket orange, 2.9mm I-VH 1K 200/230 10A17+ 8B20 or	
	HPCS 1.0*2.2mm*5,0/6.0mm (200/230um) single -core quartz fiber  HPCS 1.0*2.2mm*5,0/6.0mm (200/230um) single core silica fiber	



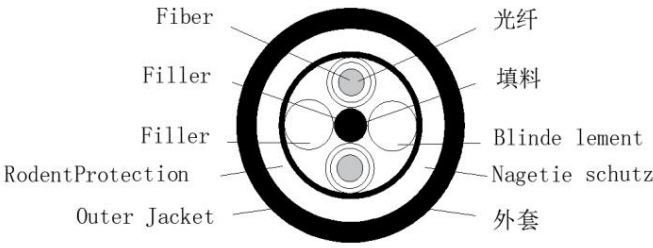
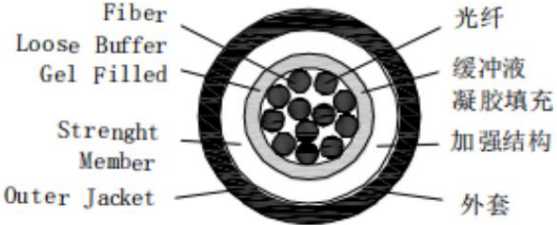
PCF Cable/

PCF optical cable

FO 200/230µm Indoor Cable, duplex FO 200/230µm indoor fiber optic cable, duplex		
Sketch /Dimension	Description /Description	Art.-No.
	HPCS 1.0*2.2*4.4mm (200/230um) dual -core quartz fiber HPCS 1.0*2.2*4.4mm (200/230um) dual-core quartz fiber	
	HPCS 1.0*2.2*4.4*6.0mm (200/230um) dual -core quartz fiber HPCS 1.0*2.2*4.4*6.0mm (200/230um) dual-core quartz fiber	
	EVA jacket orange, 3.9x6.8mm, IV (Zn)HH2K 200/230 EVA jacket orange, 3.9x6.8mm, IV (Zn)HH2K 200/230	
	PUR jacket red, 7.0 mm, flexible, drag chain usable IV(ZN)Y11Y 2K 200/230 RT  PUR sheath red, 7.0mm, flexible drag chain available IV (ZN) Y11Y 2K 200/230 RT	
FO 200/230µm Outdoor Cable FO 200/230µm Outdoor Optical		
Sketch /Dimension	Cable Description / Description	Art.-No.
	PE jacket black, 2 fibers, 7.5mm outer diameter A-DQ(ZN)B2Y2K 200/230  PE sheath black, 2 cores, 7.5mm outer diameter A-DQ (ZN) B2Y2K 200/230	

**PCF Cable/**

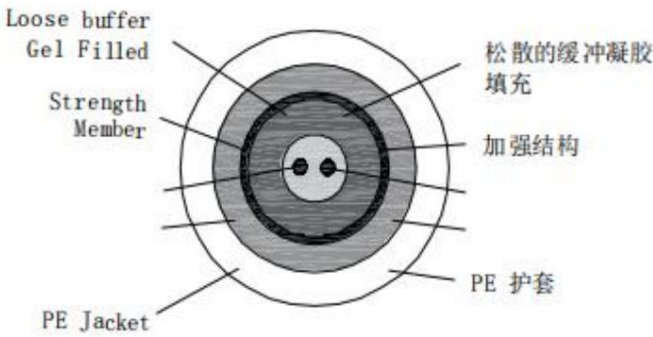
PCF optical cable

FO 200/230µm Indoor Cable, duplex FO 200/230µm indoor fiber optic cable, duplex		
Sketch /Dimension	Description /Description	Art.-No.
	<p>PE jacket black, 2 fibers, 10.9mm outer diameter AT-V Q(ZN)HB2Y2K 200/230 10A17+8B20SW</p> <p>PE sheath black, 2 fibers, 10.9mm outer diameter AT-VQ (ZN HB2Y2K200/23010A17+8B20SW</p>	
	<p>PE jacket black, with rodent protection 8.5 mm outer diameter, 12-fiber, A-DQ(ZN)BH 12K 200/230</p> <p>PE sheath black, anti-rodent protection 8.5mm outer diameter, 12 cores A-DQ (ZN) BH 12K 200/230</p>	

### Glass FO Outdoor Cable/Glass FO Outdoor Cable

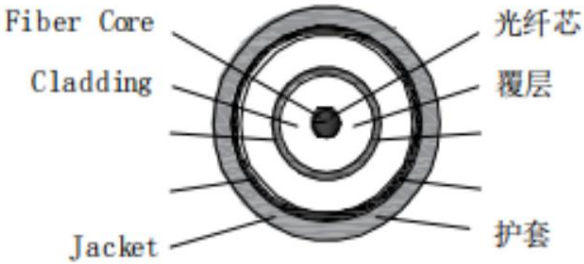
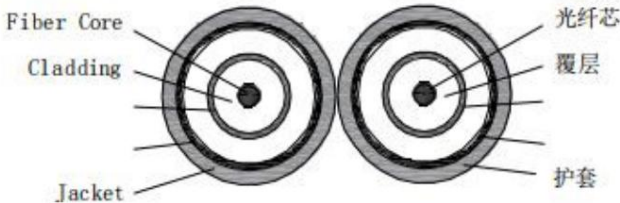
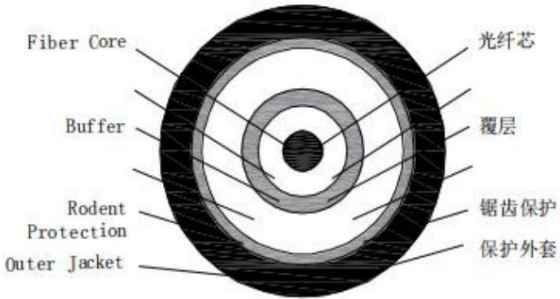
Outdoor cable with 2 fibers 50 or 62.5/125 µm, without and/or with non-metallic rodent protection, longitudinal and transversal waterproof, loose buffer gel filled, aramid strength member, PE jacket

Outdoor cable with 2 fibers 50 or 62.5/125 µm, without/or with non-metallic rodent protection, longitudinal and transverse waterproof, loose buffer gel filling, ARAMID strength members, PE sheath

Sketch /Dimension	Description /Description	Art.-No.
	<p><b>2 Fibers 2-</b> core optical fiber</p>	
	2x50/125 µm without rodent protection 2x50/125 µm without rodent protection	
	2x50/125 µm with rodent protection 2x50/125µm with rodent protection	
	2x62.5/125 µm without rodent protection 2x62.5/125 µm without rodent protection	
	2x62.5/125 µm with rodent protection 2x62.5/125µm with rodent protection	

PCF Cable/

PCF optical cable

FO Glass Fiber, Indoor FO Glass Optical Fiber, Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	<b>Glass-fiber LSZH-jacket 3mm outer diameter glass fiber LSZH-jacket 3mm outer diameter</b>	
	Fiber 50/125 μm simplex Fiber 50/125 μm simplex	
	Fiber 62.5/125 μm simplex Fiber 62.5/125 μm simplex	
	Fiber 100/140 μm simplex Fiber 100/140 μm simplex	
	<b>Glass-fiber LSZH-jacket 3x6mm outer diameter glass fiber LSZH-jacket 3x6mm outer diameter</b>	
	Fiber 50/125 μm duplex Fiber 50/125 μm duplex	
	<b>Glass-fiber breakout drag chain useable Glass-fiber breakout drag chain usable</b>	
	PUR jacket black 8mm, simplex Faser 50/125 μm, with rodent protection	
PUR sheath black 8mm, simplex fiber 50/125μm, with rodent protection		

**PCF Cable/**

PCF optical cable

FO Glass Fiber, Indoor FO Glass Optical Fiber, Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	<p><b>PVC jacket black 50/125μm fiber</b> <b>PVC jacket black 50/125μm optical fiber</b></p>	
	7.0 mm 2-fiber cable 7.0mm 2-core-fiber optic cable	
	8.0mm 4-fiber cable 8.0mm 4-core-fiber optic cable	
	9.5 mm 6-fiber cable 9.5mm 6 core-fiber optic cable	
	11.5 mm 8-fiber cable 11.5mm 8-fiber cable	
	12.5mm 12-fiber cable 12. 5mm 12-core-fiber optic cable	
	<p><b>PVC jacket black 62.5/125μm fiber PVC jacket</b> <b>black 62.5/125μm fiber</b></p>	
	7.0 mm 2-fiber cable 7.0mm 2-core - fiber optic cable	
	8.0mm 4-fiber cable 8.0mm 4 core - fiber optic cable	
	9.5 mm 6-fiber cable 9.5mm 6 core-fiber optic cable	
	11.5 mm 8-fiber cable 11.5mm 8-fiber cable	
	12.5mm 12-fiber cable 12.5mm 12-core-fiber optic cable	

**PCF Cable/**

PCF optical cable

FO Glass Fiber, Indoor FO Glass Optical Fiber, Indoor		
Sketch /Dimension	Description /Description	Art.-No.
	<b>LSZH jacket black 50/125µm fiber</b> LSZH Sheathed Black 50/125µm Optical Fiber	
	7.0 mm 2-fiber cable 7.0mm 2-core - fiber optic cable	
	8.0mm 4-fiber cable 8.0mm 4 core - fiber optic cable	
	9.5 mm 6-fiber cable 9.5mm 6 core-fiber optic cable	
	11.5 mm 8-fiber cable 11.5mm 8-fiber cable	
	12.5mm 12-fiber cable 12.5mm 12-core-fiber optic cable	
	<b>LSZH jacket black 62.5/125µm fiber</b> LSZH jacket black 62.5/125µm fiber	
	7.0 mm 2-fiber cable 7.0mm 2-core-fiber optic cable	
	8.0mm 4-fiber cable 8.0mm 4-core-fiber optic cable	
	9.5 mm 6-fiber cable 9.5mm 6 core-fiber optic cable	
	11.5 mm 8-fiber cable 11.5mm 8-fiber cable	
	12.5mm 12-fiber cable 12.5mm 12-core-fiber optic cable	