

//FIBER OPTICS

PLASTIC OR GLASS – DEPENDING ON THE AREA OF APPLICATION

For simple integration, each is available in a range of different designs and fiber optics cross sections.

/// Plastic fiber optics



Plastic fiber optic cables are available for reflective operation or for the throughbeam principle. The selection is made depending on the design of the fiber head and the functional characteristics of the fibers. A very wide selection of different fiber optics are available, including with bend protection.

Benefits:

- Large selection of fiber optics
- Fiber optics with injection-molded bending protection
- Fiber optics with lateral optics
- Cross-section converter
- Fiber optics with V-optics
- Attachment lens for greater ranges or higher precision

Switching sensors

Measuring sensors

Part no.	Part description	Operating principle	Design	Fiber length Outer diameter	Light beam exit	Minimum object diameter	Fiber sheathing material	Description
50117739	KF-L-320-D-T14L	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Lateral	0.1 mm	PE	Single fiber core
50117741	KF-LD-210-32	Throughbeam principle	Cylindrical	2,000 mm 1.25 mm	Lateral	0.05 mm	PE	Single fiber core
50117738	KF-LE-220	Throughbeam principle	Cylindrical	2,000 mm 1 mm	Front	0.03 mm	PE	Single fiber core
50126967	KF-LH-320-D	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Lateral	0.1 mm	PE	Heat resistant, single fiber core
50122328	KF-LP-FU92-520-Q	Throughbeam principle	Cylindrical	2,000 mm 4 mm	Front	0.5 mm	PTFE	Single fiber core
50122327	KF-LP-FU96-520-Q	Throughbeam principle	Cylindrical	2,000 mm 4 mm	Lateral	0.5 mm	PTFE	Single fiber core
50117750	KF-LY-77TZ-20	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Lateral	0.5 mm	PE	Single fiber core
50117770	KFX-L-320	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Single fiber core
50117774	KFX-L-320-Q	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Single fiber core
50117766	KFX-L-420	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Single fiber core
50117776	KFX-LA-220	Throughbeam principle	Cylindrical	2,000 mm 1.25 mm	Front	0.03 mm	PE	Single fiber core
50117777	KFX-LD-120	Throughbeam principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core
50117771	KFX-LD-320	Throughbeam principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core
50117775	KFX-LD-320-Q	Throughbeam principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core
50117767	KFX-LD-420	Throughbeam principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core
50117772	KFX-LH-320	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Heat resistant, single fiber core
50117768	KFX-LH-420	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Heat resistant, single fiber core
50117773	KFX-LY-320	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Single fiber core
50117769	KFX-LY-420	Throughbeam principle	Cylindrical	2,000 mm 2.2 mm	Front	0.5 mm	PE	Single fiber core
50117749	KF-LC32-12	Throughbeam principle	Cylindrical	900 mm 2.8 mm	Bent 90 °	0.1 mm	PE	Multiple fiber core, mixed fiber configuration
50117740	KF-LH-305-D	Throughbeam principle	Cylindrical	500 mm 2.2 mm	Lateral	0.1 mm	PE	Heat resistant, single fiber core
50117737	KF-ETE-220	Diffuse reflection principle	Cylindrical	2,000 mm 1 mm	Front	0.05 mm	PE	Single fiber core
50117752	KFX-ET-620	Diffuse reflection principle	Cylindrical	2,000 mm 2.2 mm	Front	0.2 mm	PE	Single fiber core
50117758	KFX-ETA-320	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core
50117755	KFX-ETA-420	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core

A LV4xx series amplifier is required for operation!

Products for safety at work

Identification

Data transmission / Control components

Industrial image processing

Accessories

Part no.	Part description	Operating principle	Design	Fiber length Outer diameter	Light beam exit	Minimum object diameter	Fiber sheathing material	Description
50117759	KFX-ETC-320	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Multiple fiber core, coaxial fiber configuration
50117761	KFX-ETC-320-Q	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Multiple fiber core, coaxial fiber configuration
50117756	KFX-ETC-420	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Multiple fiber core, coaxial fiber configuration
50117753	KFX-ETC-620	Diffuse reflection principle	Cylindrical	2,000 mm 2.2 mm	Front	0.1 mm	PE	Multiple fiber core, coaxial fiber configuration
50117763	KFX-ETC7-120	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Multiple fiber core, coaxial fiber configuration
50117760	KFX-ETD-320	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.1 mm	PE	Single fiber core
50117762	KFX-ETD-320-Q	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.05 mm	PE	Single fiber core
50117757	KFX-ETD-420	Diffuse reflection principle	Cylindrical	2,000 mm 1.25 mm	Front	0.1 mm	PE	Single fiber core
50117754	KFX-ETH-620	Diffuse reflection principle	Cylindrical	2,000 mm 2.2 mm	Front	0.2 mm	PE	Heat resistant, single fiber core
50117764	KFX-ETY-67TZ-20	Diffuse reflection principle	Cylindrical	2,000 mm 2.2 mm	Lateral	0.2 mm	PE	Single fiber core
50121079	KFX-ET-605	Diffuse reflection principle	Cylindrical	500 mm 2.2 mm	Front	0.2 mm	PE	Single fiber core
50117743	KF-L-10MLD-20	Throughbeam principle	Cubic	2,000 mm 2.2 mm	Lateral	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117744	KF-L-15MLD-10	Throughbeam principle	Cubic	2,000 mm 2.2 mm	Lateral	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117746	KF-L-30ML-20	Throughbeam principle	Cubic	2,000 mm 2.8 mm	Lateral	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117747	KF-L-50ML-20	Throughbeam principle	Cubic	2,000 mm 2.2 mm	Lateral	2 mm	PE	Multiple fiber core, mixed fiber configuration
50117748	KF-LW-FU53-20	Throughbeam principle	Cubic	2,000 mm 1 mm	Lateral	0.1 mm	PE	Single fiber core
50117745	KF-LW-FU57-20	Throughbeam principle	Cubic	2,000 mm 1 mm	Lateral	0.1 mm	PE	Single fiber core
50117751	KF-LY-U09-20	Throughbeam principle	Cubic	2,000 mm 2.2 mm	Lateral		PE	Single fiber core
50117778	KFX-L-20ML-20	Throughbeam principle	Cubic	2,000 mm 2.8 mm	Front	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117742	KF-L-10ML-10	Throughbeam principle	Cubic	1,000 mm 2.2 mm	Front	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117727	KF-ET-10ML-20	Diffuse reflection principle	Cubic	2,000 mm 1.25 mm	Front	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117729	KF-ET-20MLS-20	Diffuse reflection principle	Cubic	2,000 mm 2.2 mm	Front	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117730	KF-ET-30ML-20	Diffuse reflection principle	Cubic	2,000 mm 2.2 mm	Lateral	1 mm	PE	Multiple fiber core, mixed fiber configuration
50117731	KF-ET-50ML-20	Diffuse reflection principle	Cubic	2,000 mm 2.2 mm	Lateral	2 mm	PE	Multiple fiber core, mixed fiber configuration
50117735	KF-ETB-38V-20	Diffuse reflection principle	Cubic	2,000 mm 1.3 mm	Lateral		PE	Single fiber core
50117736	KF-ETH-38H-20	Diffuse reflection principle	Cubic	2,000 mm 2.2 mm	Lateral		PE	Heat resistant, single fiber core
50117733	KF-ETW-FU47-20	Diffuse reflection principle	Cubic	2,000 mm 1 mm	Lateral	0.1 mm	PE	Single fiber core
50117734	KF-ETW-K10-20	Diffuse reflection principle	Cubic	2,000 mm 1 mm	Lateral	0.1 mm	PE	Single fiber core
50117732	KF-ETY-20MLSD-20	Diffuse reflection principle	Cubic	2,000 mm 2.2 mm	Lateral	0.5 mm	PE	Single fiber core
50117765	KFX-ET-20ML-20	Diffuse reflection principle	Cubic	2,000 mm 2.2 mm	Front	1 mm	PE	Multiple fiber core
50117728	KF-ET-15MLD-20	Diffuse reflection principle	Cubic	1,000 mm 1.25 mm	Lateral	1 mm	PE	Multiple fiber core, mixed fiber configuration

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