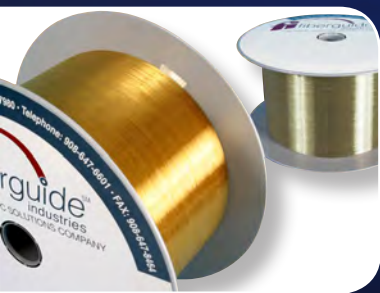


optical fibers

broad range of waveguides for every application



- ✦ single mode fibers
- ✦ multi mode fibers
- ✦ polarisation maintaining fibers
- ✦ doped fibers
- ✦ plastic optical fibers



AMS Technologies – where technologies meet solutions

AMS Technologies is a leading solution provider and distributor of high-tech, leading-edge components, systems and equipment, with more than 35 years of experience to date and currently serving more than 2000 European customers.

We are the specialists in both components and complete solutions for Optical Technology, Thermal Management and Power Technology fields, with access to and long standing relationships with the most advanced manufacturers in each of those fields. Drawing extensively on our experience in each of these differing technologies, and coupling this with our broad system-level competence, we are able to offer seamless and comprehensive solutions incorporating complementary aspects from all three key technology fields.

With an appropriate technical education, an element of entrepreneurial spirit and many years of design and consultancy expertise, our sales engineers can rapidly comprehend system requirements and provide you the customer with a solution that goes way beyond a simple understanding of our product datasheets. We take active involvement in the design cycle, defining and re-defining your specifications, and leading in many cases to highly specific, customized products and solutions.

Helping you to effectively outsource your production line, we can even provide you with the necessary leading turnkey contract manufacturing services in our key competency fields.

AMS Technologies has been delivering solutions into a variety of high-tech markets, including renewable energies, medical, defence & aerospace, research & scientific and various other industrial segments. Our customer base consists of Europe's largest leading technology corporations, a network of universities and research institutes as well as the most promising start-ups.

We thrive by working in a 'customer first' environment. Our pan-European customers are serviced from a network of local offices in Germany, the UK, France, Italy, Spain, Poland and Sweden, with a focused operations and logistics centre located in Munich, Germany.

Our commitment: Identifying the best solution for your project enabling you to become your customers' first choice!

Your AMS Technologies team



- Optical Technologies
- Power Technologies
- Thermal Management

optical fibers

Our large portfolio of optical fibers – including specialty fibers – spans from just a few meters of highly engineered fiber to several kilometers of SMF-28 compatible material. For a wide wavelength range we are offering single mode fibers, multi mode fibers and polarization maintaining (PM) fibers as well as doped fibers or plastic optical fibers (POF). Cover your specific

requirements with features like extended temperature range, high index of refraction, bend insensitivity, variations of cladding diameters or different coating options ranging from acrylate to aluminium or gold for very high temperatures. And if you can't spot the particular fiber here that meets your needs, please contact us to discuss your unique requirements.

single mode fibers

Single mode fibers feature a small diameter of the fiber core (in the range of 2.5 μm to 10 μm), allowing propagation of light in just one (transversal) optical mode. Thus, the fiber shows a significantly higher pulse shape fidelity compared to using a multi mode fiber. Single mode fibers are used for a wide

range of challenging applications. They allow transmission of optical signals over very long distances and are offered with special features like high operating temperatures or low bend sensitivity.

multi mode fibers

With their relatively large fiber core diameter (typically in the range of 50 μm up to a few hundred μm), multi mode fibers allow multiple modes of light to propagate through the fiber. Due to mode interference, the shapes of light pulses get distorted substantially when travelling through multi mode

fibers over longer distances. Compared to single mode fibers, the larger core size of multi mode fibers simplifies connections, features a higher numerical aperture and allows transmission of light of high optical power.

polarisation maintaining fibers (PM fibers)

In any ordinary fiber, tiny imperfections are causing random changes to the polarity of light propagating through the fiber. For some applications, where maintaining the light's polarization is key, a polarisation maintaining fiber (PMF or PM fiber) is used. In most versions of this single mode speciality fiber, tension

rods are integrated into the fiber's cladding on opposite sides of the core, inducing a strong but tightly controlled birefringence. If linearly polarized light is properly launched into a PM fiber, it maintains its linear polarization during propagation.

doped fibers

Cores of doped fibers or active fibers are doped with laser-active ions, mostly of rare-earth materials like erbium, ytterbium, neodymium or thulium. Excited by suitable pump light, these ions show optical amplification behavior, usable in fiber lasers or amplifiers. Manufactured with a patented outside

vapor deposition process, our doped specialty fibers set the worldwide standard for uniformity and reliability, have a proven track record in state-of-the-art optical amplifiers and show consistently low splice loss when coupled with other optical fibers.

plastic optical fibers

Compared to optical fibers with cores made of silica or composite glass, plastic optical fibers (POF) are entirely made of polymer materials. Not only coatings and jackets, but also fiber core and cladding consist of polymers. While showing higher attenuation and lower transmission capacity, plastic

optical fibers are less brittle, more flexible, easier to handle and very cost-effective. Typical areas of use are short-range data communications, illumination (mostly with larger core diameters to transmit larger amounts of light) and industrial applications.





single mode fibers

Name	Specialty	Cut-off Wave-length (nominal) [nm]	Core Diameter (nominal) [μm]	Cladding Outside Diameter [μm]	Coating Outside Diameter [μm]	Coating Material
RGB 400	Optimized for Visible Light Spectral Range	450	4.0	125	245	Acrylate
ASI4.3/125/250Y	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	250	Acrylate
ASI4.3/125/145T	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	145	Polyimide
ASI4.3/125/175A	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	175	Aluminium
ASI4.3/125/155G	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	155	Gold
HI 780	High Index, Bend Insensitive	720	4.0	125	245	Acrylate
HI 980	High Index, Bend Insensitive	980	3.5	125	245	Acrylate
HI 1060	High Index, Bend Insensitive	920	5.3	125	245	Acrylate
HICER 98	High Index, Spliced Optimized Coupler Fiber	980	4.5	125	245	Acrylate
SMBI-X-MT	Bend Insensitive, Mid-Temp. Acrylate Coating	1260	8.2	125	245	Acrylate
ClearCurve XB	Low Bend Loss	1260		125	242	Acrylate
SMF-28e+	Full Spectrum Single Mode Fiber	1260	8.2	125	242	Acrylate
ASI9.0/125/250Y	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	250	Acrylate
ASI9.0/125/145T	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	145	Polyimide
ASI9.0/125/175A	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	175	Aluminium
ASI9.0/125/155G	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	158	Gold
RC 1300	High Index, Bend Insensitive, Reduced Cladding	1280	4.9	80	165	Acrylate
SM-MT	Mid-Temperature Acrylate Coating	1290	8.2	125	245	Acrylate
SMFHA	Hermetic Layer, No Hydrogen Aging	1290	8.2	125	245	Acrylate
RC SMF	Low Splice Loss, Low Bend Loss, Small Diameter	1290	8.0	80	165	Acrylate
ClearCurve Photonic	Ultra-low Bend Loss	1450	9.4	125	245	Acrylate
RC 1550	High Index, Bend Insensitive, Reduced Cladding	1480	5.7	80	165	Acrylate



single mode fibers

Proof Test [kPSI]	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture (N.A., nominal)	Options
100 / 200		-60	+85	0.12	
100	25	-40	+85	0.12	
50	25	-190	+350	0.12	
100	25	-269	+400	0.12	
50	25	-269	+700	0.12	
100 / 200		-60	+85	0.14	C (Coupler-optimized)
100 / 200		-60	+85	0.14	RC (Reduced Cladding, 80 µm)
100 / 200		-60	+85	0.14	RC (Reduced Cladding, 80 µm), FLEX (Ultra-low Bend Loss, 930 nm Cut-off WL)
200		-60	+85	0.17	
	5, 7.5, 10	-60	+150	0.12	X (5, 7.5, 10 mm min. Bending Radius), 200 µm Coating Ø, H (Hermetic Layer), XMT (Ext. Temp. +180 °C)
200		-60	+85	0.13	
100		-60	+85	0.14	LL (Low-loss), ULL (Ultra-low-loss), Ultra/200 (Bend Improvement, Ultra-low-loss)
100	25	-40	+85	0.12	
50	25	-190	+350	0.12	
100	25	-269	+400	0.12	
50	25	-269	+700	0.12	
100		-60	+85	0.20	
100		-60	+150	0.12	200 µm Coating Ø, H (Hermetic Layer), XMT (Extended Temp. +180 °C)
200		-60	+85	0.12	
100 / 200		-60	+85	0.12	
200		-60	+85	0.15	H (Hermetic Layer), LBL (Low Bend Loss), ZBL (Virtually Zero Bend Loss)
100		-60	+85	0.20	



multi mode fibers



Name	Specialty	Minimum Operating Wavelength (nominal) [nm]	Maximum Operating Wavelength (nominal) [nm]	Core Diameter (nominal) [μm]	Cladding Outside Diameter [μm]	Coating Outside Diameter [μm]
SFS Y	UV to Visible, Acrylate Coating	190	1250	50 to 200	125 to 220	250 to 320
SFS T	UV to Visible, Polyimide Coating	190	1250	50 to 600	125 to 660	145 to 710
SFS N	UV to Visible, Nylon Coating, Silicone Buffer	190	1250	50 to 1500	125 to 1650	295 to 1950
SFS Z	UV to Visible, Tefzel Coating, Silicone Buffer	190	1250	100 to 1500	110 to 1650	310 to 2750
SFS G	UV to Visible, Gold Coating	190	1250	50 to 400	125 to 440	155 to 510
SFSH Z	Cladding Hard Coated, UV to VIS, Tefzel Coating	190	1250	200 to 910	240 to 1000	400 to 1400
SFSH C	Cladding Hard Coated, UV to VIS, Tefzel Coating	190	1250	200 to 910	240 to 1000	400 to 1400
SPCH Z	Hard Polymer Cladding, UV to VIS, Tefzel Coat.	190	1250	200 to 1500	230 to 1550	500 to 2000
SPCH C	Hard Polymer Cladding, UV to VIS, Tefzel Coat.	190	1250	200 to 1500	230 to 1550	500 to 2000
SPC N	Polymer Cladding, UV to Visible, Nylon Coating	190	1250	200 to 2000	300 to 2150	370 to 2300
UVS THY	Long-term UV Attenuation Stability, UV to VIS	190	1250	50 to 600	125 to 660	145 to 710
UVS H2A	Long-term UV Attenuation Stability, UV to VIS	190	1250	100 to 400	110 to 440	150 to 530
SFR N	UniClad, Large Cladding, UV to VIS, Nylon Coat.	190	1250	100 to 800	140 to 1000	1300 to 2000
AFS Y	Visible to IR, Acrylate Coating	300	2400	50 to 200	125 to 220	250 to 320
AFS T	Visible to IR, Polyimide Coating	300	2400	50 to 600	125 to 660	145 to 710
AFS N	Visible to IR, Nylon Coating, Silicone Buffer	300	2400	50 to 1500	125 to 1650	295 to 1950
AFS Z	Visible to IR, Tefzel Coating, Silicone Buffer	300	2400	100 to 1500	110 to 1650	310 to 2750
AFS G	Visible to IR, Gold Coating	300	2400	50 to 400	125 to 440	155 to 510
AFSH Z	Cladding Hard Coated, Visible to IR, Tefzel Coat.	300	2400	200 to 910	240 to 1000	400 to 1400
AFSH C	Cladding Hard Coated, Visible to IR, Tefzel Coat.	300	2400	200 to 910	240 to 1000	400 to 1400
APCH Z	Hard Polymer Cladding, VIS to IR, Tefzel Coating	300	2400	200 to 1500	230 to 1550	500 to 2000
APCH C	Hard Polymer Cladding, VIS to IR, Tefzel Coating	300	2400	200 to 1500	230 to 1550	500 to 2000
APC N	Polymer Cladding, Visible to IR, Nylon Coating	300	2400	200 to 2000	300 to 2150	370 to 2300
AFR N	UniClad, Large Cladding, VIS to IR, Nylon Coat.	300	2400	100 to 800	140 to 1000	1300 to 2000
AGI Y	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	250
AGI T	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	145
AGI A	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	175
AGI G	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	155
MM50-MT	Mid-Temperature Acrylate Coating	850	1300	50	125	245
MM50BI-OMX-MT	Bend Insensitive, Mid-Temp. Acrylate Coating	850	1300	50	125	242
MM50BI-XMT	Bend Insensitive, Mid-Temp. Acrylate Coating	850	1300	50	125	245
MMFHA	Hermetic Layer, No Hydrogen Aging	850	1300	50	125	245



multi mode fibers

	Coating Material	Proof Test [kPSI]	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture (N.A., nominal)	Options
	Acrylate	100	13 to 44	-40	+85	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
	Polyimide	50	13 to 132	-190	+350	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
	Nylon	100	13 to 330	-40	+100	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
	Tefzel	100	11 to 330	-40	+200	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
	Gold	50	13 to 88	-269	+700	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
	Tefzel (Natural)	100	24 to 200	-40	+200	0.22	
	Tefzel (Blue)	100	24 to 200	-40	+200	0.22	
	Tefzel (Natural)	100	20 to 300	-40	+200	0.37	
	Tefzel (Blue)	100	20 to 300	-40	+100	0.37	
	Nylon	100	30 to 400	-40	+100	0.37	
	Polyimide/Thermocoat	50	13 to 132	-190	+350	0.22	
	Aluminium	100	11 to 88	-269	+400	0.22	
	Nylon	100	50 to 200	-40	+100	0.20	Cladding Doped/Undoped
	Acrylate	100	13 to 44	-40	+85	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
	Polyimide	50	13 to 132	-190	+350	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
	Nylon	100	13 to 330	-40	+100	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
	Tefzel	100	11 to 330	-40	+200	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
	Gold	50	13 to 88	-269	+700	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
	Tefzel (Natural)	100	24 to 200	-40	+200	0.22	
	Tefzel (Blue)	100	24 to 200	-40	+200	0.22	
	Tefzel (Natural)	100	20 to 300	-40	+200	0.37	
	Tefzel (Blue)	100	20 to 300	-40	+100	0.37	
	Nylon	100	20 to 400	-40	+100	0.37	
	Nylon	100	50 to 200	-40	+100	0.20	Cladding Doped/Undoped
	Acrylate	100	13 to 25	-40	+85	0.200 / 0.275	
	Polyimide/Thermocoat	100	13 to 25	-190	+350	0.200 / 0.275	
	Aluminium	100	13 to 25	-269	+400	0.200 / 0.275	
	Gold	100	13 to 25	-269	+700	0.200 / 0.275	
	Acrylate	100		-60	+150	0.20	200 µm Coating Ø, H (Hermetic Layer), XMT (Ext. Temp. +180 °C)
	Acrylate	100 / 200	7.5	-60	+85	0.20	OM2/3/4/5 (Bandwidth Options), 200 µm Coating Ø, H (Hermetic Layer), XMT (Ext. Temp. +180 °C)
	Acrylate	100 / 200	7.5	-60	+180	0.20	H (Hermetic Layer)
	Acrylate	200		-60	+85	0.20	





polarization maintaining (PM) fibers

Name	Specialty	Cut-off Wavelength (nominal) [nm]	Cladding Outside Diameter [μm]	Coating Outside Diameter [μm]	Coating Material
PM 400	Extremely High Birefringence, Low Attenuation	330 to 400	125	245, 400, 900	Acrylate, Polyester-Elastomer
RGB PM	Optimized for RGB Band (405 nm to 630 nm)	400	125	245	Acrylate
PM 480	Extremely High Birefringence, Low Attenuation	400 to 470	125	245, 400, 900	Acrylate, Polyester-Elastomer
PM 630	Extremely High Birefringence, Low Attenuation	520 to 620	125	245, 400, 900	Acrylate, Polyester-Elastomer
PM 850	Extremely High Birefringence, Low Attenuation	650 to 800	125	245, 400, 900	Acrylate, Polyester-Elastomer
PM 980	Extremely High Birefringence, Low Attenuation	870 to 950	125	145, 245, 400, 900	Acryl., Poly.-Elast., Polyimide
PM 1300	Extremely High Birefringence, Low Attenuation	1100 to 1290	125	145, 245, 400, 900	Acryl., Poly.-Elast., Polyimide
PM 14XX	Extremely High Birefringence, Low Attenuation	1200 to 1380	125	245, 400, 900	Acrylate, Polyester-Elastomer
PM 1550	Extremely High Birefringence, Low Attenuation	1290 to 1450	125	145, 245, 400, 900	Acryl., Poly.-Elast., Polyimide
BIPM 1550	Bend Insensitive, Extr. High Biref., Low Att.	1440	125	254, 400, 500	Acrylate, Polyester-Elastomer
PMSR 1550	Bend Insensitive, Extr. High Biref., Low Att.	1440	125	254, 500, 900	Acrylate, Polyester-Elastomer

doped fibers

Name	Specialty	Cut-off Wavelength (nominal) [nm]	Cladding Outside Diameter [μm]	Coating Outside Diameter [μm]
ER 1550C3 LC	Erbium-Doped Fiber, Low Cut-off	980	125	245
ER 1550C3	Erbium-Doped Fiber, Dual Acrylate Coating	1300	125	245
RC ER 1550C3	Erbium-Doped Fiber, Reduced Cladding	1300	80	165
ER 1600L3	Erbium-Doped Fiber, Dual Acrylate Coating	1400	125	245
RC ER 1600L3	Erbium-Doped Fiber, Reduced Cladding	1400	80	165

plastic optical fibers

Name	Specialty	Core Diameter (nominal) [μm]	Cladding Outside Diameter [μm]	Coating Outside Diameter [μm]
PJS-FB	Polymethyl Methacrylate Core + Polymer Clad	240	250	
PGS-FB	Polymethyl Methacrylate Core + Polymer Clad	240	250 / 265	
PJR-FB	Polymethyl Methacrylate Core + Polymer Clad	240 to 1480	250 to 1600	
PGR-FB	Polymethyl Methacrylate Core + Polymer Clad	240 to 2980	250 to 3000	
PFU-FB	Polymethyl Methacrylate Core + Polymer Clad	485 to 980	500 to 1000	
PFU-CD	Single or double fibers w. PE/Polyamide Coat	485 to 980	500 to 1000	500 to 4400
PGS-CD	Single or double fibers with PE Coating		500 to 1000	1000 to 4400
PJU-FB	Polymethyl Methacrylate Core + Polymer Clad	486 to 980	500 to 1000	
PJS-CD	Single fibers with PE/Polyamide Coating		500 to 1000	1000 to 2200
PGU-FB	Polymethyl Methacrylate Core + Polymer Clad	486 to 1480	500 to 1500	
PGU-CD	Single or double fibers with PE Coating	486 to 1480	500 to 1500	1000 to 4400
PFU-UD	Single or double fibers with PVC Coating	485 to 980	1000	2200 to 4400
PFD	Polymethyl Methacrylate Core + Polymer Clad		1000	2300
PGR-CD	Single or double fibers with PE Coating		1500 to 2000	2800 to 3000



polarization maintaining (PM) fibers

	Proof Test [kPSI]	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Options
	100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
	200	30	-40	+85	
	100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
	100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
	100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
	100 / 200		-40	+85	Coating Mat. incl. Fl. Ret. & Polyimide, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
	100 / 200		-40	+85	Coating Mat. incl. Fl. Ret. & Polyimide, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
	100 / 200		-40	+85	Coating Mat. incl. Flame Retardant, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
	100 / 200		-40	+85	Coating Mat. incl. Fl. Ret. & Polyimide, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
	200	7.5, 15.0	-40	+85	Various Coating Materials incl. Flame Retardant
	200	15.0	-40	+85	Various Coating Materials incl. Flame Retardant

doped fibers

	Coating Material	Proof Test [kPSI]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture (N.A., nominal)
	Acrylate	100	-60	+85	0.22
	Acrylate	100	-60	+85	0.23
	Acrylate	100	-60	+85	0.23
	Acrylate	100	-60	+85	0.23
	Acrylate	100	-60	+85	0.23

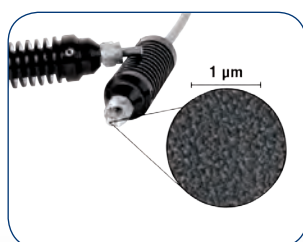
plastic optical fibers

	Coating Material	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture N.A., nominal)
		9	-55	+85	0.63
		9	-55	+70	0.50
		9	-55	+85	0.63
		9, 20	-55	+70	0.50
		17	-55	+85	0.46
	PE, Polyamide12	17	-55	+85	0.46
	PE	9, 20	-55	+70	0.50
		9	-55	+85	0.63
	PE, Polyamide12	9	-55	+85	0.63
		9, 20	-55	+70	0.50
	PE	9, 20	-55	+70	0.50
	PVC, UL Grade VW-1	17	-55	+85	0.46
	Polyam. 12/Flame retard. PA	9	-55	+85	0.50
	PE	20	-55	+70	0.50



associated products

anti-reflective surface process



Based on the patented, randomized “RARE Motheye Fiber” process, nanostructures are created on the fiber surface – resulting in anti-reflective properties. Through this rigorous process, fiber optic cables are produced that have superior wavelength range, durability and damage thresholds when compared with commonly used coated thin-film surfaces. “RARE Motheye Fiber” enables faster delivery times as well as simple water cleanup of fiber faces due to the hydrophobic nature of the nanostructure.

connectors & adapters



Our broad range of optical fiber connectors provide detachable as well as reliable connections of optical fibers with low insertion loss and high return loss. Connectors are available for standards like ST, SC, FC, DIN PC, LC, MTRJ, SMA and others in different ferrule versions, suitable for a broad range of fibers. High quality connector adapters for almost every standard connector style as well as hybrid versions guarantee a very low insertion loss at MM and SM. These light weight products are easy to handle and allow fast panel mounting.

equipment for fiber test & inspection



Our portfolio of small and lightweight test equipment for measurement of the transmitted power in an optical fiber comprises light sources for various wavelengths, power meters for the visible and infrared domain and integrated solutions for sources and meters as well as OTDRs. And with our fiber optic inspection equipment like small handheld tools for inspection of fiber optic connectors or high resolution type microscopes, users can verify, certify and repair fiber optic systems in all phases of fiber optic manufacture, installation and maintenance.

fiber processing equipment



With its very broad range of equipment AMS Technologies supports every step in the processing, assembly and maintenance of optical fiber. Here you find everything from manual and thermal strippers to adhesive dispensing and injection systems for fiber optics and ferrules including optical adhesives, to polishing films ensuring a scratchless surface with best optical characteristics and dedicated fiber optic cleaning tools that remove dust, skin oils and fiber residues from optical connectors all the way to laser endcapping stations.

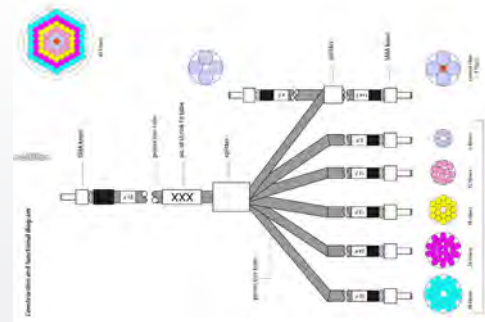
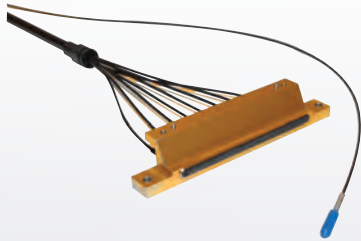
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from technology components to turnkey solutions

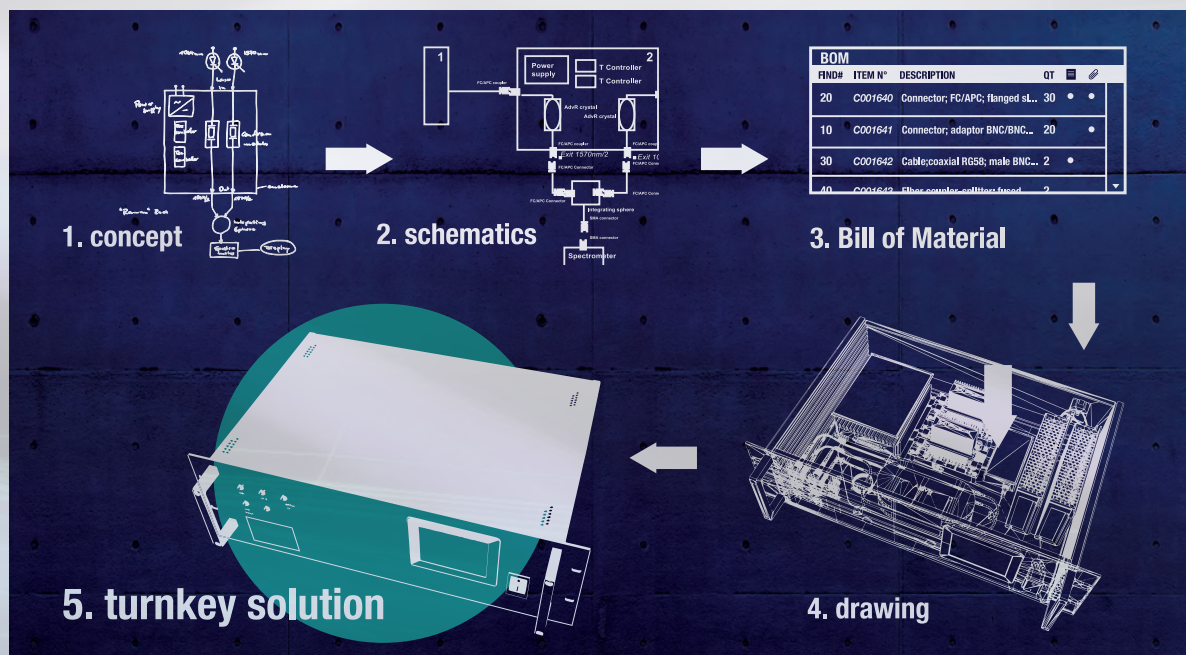
fiber bundles

AMS Technologies has a proven track record of working with our OEM customers to design and build the most different configurations of bundled assemblies for a wide variety of photonics systems. These are used for performing optical sensing and laser power delivery for industrial, medical, military and research applications. We design and engineer assemblies using not only our range of silica core, polarization maintaining, erbium-doped and plastic optical fibers, but also borosilicate glass or chalcogenide fiber. Our assemblies are available with various numerical apertures as well as with the widest range of custom and standard endfittings/connectors and outer jackets to tailor a product exactly to your technical and economic requirements.



optical racks

Based on customer requests, AMS Technologies develops and delivers optical racks. These customized solutions integrate, active components like lasers, LEDs or amplifiers with passive components (fibers, lenses, mirrors, filters, connectors, attenuators...), optomechanical parts (fixtures, holders, translators, stages...), thermal management (TECs, heatsinks, cooling plates, temperature sensors...) electronics (power supplies, drivers, temperature controllers, interface...), user interface and software. Starting with a concept, the AMS experts provide every project step from schematics, BOM creation and drawings all the way to manufacturing your turnkey solution.



SOLUTIONS



enabling your ideas.

Optical, Power and Thermal Management Technologies

■ GERMANY

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