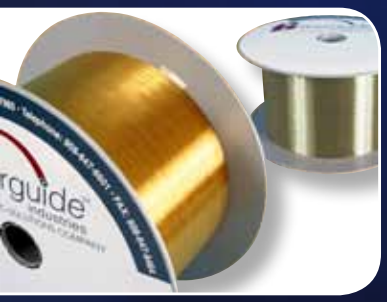
amsTECHNOLOGIES
where technologies meet solutions

optical fibers

broad range of waveguides for every application



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

OPTICAL TECHNOLOGIES

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

Contact us

amsTECHNOLOGIES
where technologies meet solutions

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

single mode fibers

Name	Specialty	Cut-off Wavelength (nominal) [nm]	Core Diameter (nominal) [µm]	Cladding Outside Diameter [µm]	Coating Outside Diameter [µm]	Coating Material		Proof Test [kPSI]	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture (N.A., nominal)	Options
RGB 400	Optimized for Visible Light Spectral Range	450	4.0	125	245	Acrylate		100 / 200		-60	+85	0.12	
ASI4.3/125/250Y	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	250	Acrylate		100	25	-40	+85	0.12	
ASI4.3/125/145T	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	145	Polyimide		50	25	-190	+350	0.12	
ASI4.3/125/175A	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	175	Aluminium		100	25	-269	+400	0.12	
ASI4.3/125/155G	Germanium Doped Fused Silica Core, Silica Clad	580	4.3	125	155	Gold		50	25	-269	+700	0.12	
HI 780	High Index, Bend Insensitive	720	4.0	125	245	Acrylate		100 / 200		-60	+85	0.14	C (Coupler-optimized)
HI 980	High Index, Bend Insensitive	980	3.5	125	245	Acrylate		100 / 200		-60	+85	0.14	RC (Reduced Cladding, 80 µm)
HI 1060	High Index, Bend Insensitive	920	5.3	125	245	Acrylate		100 / 200		-60	+85	0.14	RC (Reduced Cladding, 80 µm), FLEX (Ultra-low Bend Loss, 930 nm Cut-off WL)
HICER 98	High Index, Spliced Optimized Coupler Fiber	980	4.5	125	245	Acrylate		200		-60	+85	0.17	
SMBI-X-MT	Bend Insensitive, Mid-Temp. Acrylate Coating	1260	8.2	125	245	Acrylate			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)
ClearCurve XB	Low Bend Loss	1260		125	242	Acrylate		200		-60	+85	0.13	
SMF-28e+	Full Spectrum Single Mode Fiber	1260	8.2	125	242	Acrylate		100		-60	+85	0.14	LL (Low-loss), ULL (Ultra-low-loss), Ultra/200 (Bend Improvement, Ultra-low-loss)
ASI9.0/125/250Y	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	250	Acrylate		100	25	-40	+85	0.12	
ASI9.0/125/145T	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	145	Polyimide		50	25	-190	+350	0.12	
ASI9.0/125/175A	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	175	Aluminium		100	25	-269	+400	0.12	
ASI9.0/125/155G	Germanium Doped Fused Silica Core, Silica Clad	1100	9.0	125	158	Gold		50	25	-269	+700	0.12	
RC 1300	High Index, Bend Insensitive, Reduced Cladding	1280	4.9	80	165	Acrylate		100		-60	+85	0.20	
SM-MT	Mid-Temperature Acrylate Coating	1290	8.2	125	245	Acrylate		100		-60	+150	0.12	200 µm Coating Ø, H (Hermetic Layer), XMT (Extended Temp. +180 °C)
SMFHA	Hermetic Layer, No Hydrogen Aging	1290	8.2	125	245	Acrylate		200		-60	+85	0.12	
RC SMF	Low Splice Loss, Low Bend Loss, Small Diameter	1290	8.0	80	165	Acrylate		100 / 200		-60	+85	0.12	
ClearCurve Photonic	Ultra-low Bend Loss	1450	9.4	125	245	Acrylate		200		-60	+85	0.15	H (Hermetic Layer), LBL (Low Bend Loss), ZBL (Virtually Zero Bend Loss)
RC 1550	High Index, Bend Insensitive, Reduced Cladding	1480	5.7	80	165	Acrylate		100		-60	+85	0.20	

multi mode fibers

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]		Coating Material	Proof Test [kPSI]	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture (N.A., nominal)	Options
SFS Y	UV to Visible, Acrylate Coating	190	1250	50 to 200	125 to 220	250 to 320		Acrylate	100	13 to 44	-40	+85	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
SFS T	UV to Visible, Polyimide Coating	190	1250	50 to 600	125 to 660	145 to 710		Polyimide	50	13 to 132	-190	+350	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
SFS N	UV to Visible, Nylon Coating, Silicone Buffer	190	1250	50 to 1500	125 to 1650	295 to 1950		Nylon	100	13 to 330	-40	+100	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
SFS Z	UV to Visible, Tefzel Coating, Silicone Buffer	190	1250	100 to 1500	110 to 1650	310 to 2750		Tefzel	100	11 to 330	-40	+200	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
SFS G	UV to Visible, Gold Coating	190	1250	50 to 400	125 to 440	155 to 510		Gold	50	13 to 88	-269	+700	0.22	SFM (Low Numerical Aperture, 0.12), SFH (High N.A., 0.26)
SFSH Z	Cladding Hard Coated, UV to VIS, Tefzel Coating	190	1250	200 to 910	240 to 1000	400 to 1400		Tefzel (Natural)	100	24 to 200	-40	+200	0.22	
SFSH C	Cladding Hard Coated, UV to VIS, Tefzel Coating	190	1250	200 to 910	240 to 1000	400 to 1400		Tefzel (Blue)	100	24 to 200	-40	+200	0.22	
SPCH Z	Hard Polymer Cladding, UV to VIS, Tefzel Coat.	190	1250	200 to 1500	230 to 1550	500 to 2000		Tefzel (Natural)	100	20 to 300	-40	+200	0.37	
SPCH C	Hard Polymer Cladding, UV to VIS, Tefzel Coat.	190	1250	200 to 1500	230 to 1550	500 to 2000		Tefzel (Blue)	100	20 to 300	-40	+100	0.37	
SPC N	Polymer Cladding, UV to Visible, Nylon Coating	190	1250	200 to 2000	300 to 2150	370 to 2300		Nylon	100	30 to 400	-40	+100	0.37	
UVS THY	Long-term UV Attenuation Stability, UV to VIS	190	1250	50 to 600	125 to 660	145 to 710		Polyimide/Thermocoat	50	13 to 132	-190	+350	0.22	
UVS H2A	Long-term UV Attenuation Stability, UV to VIS	190	1250	100 to 400	110 to 440	150 to 530		Aluminium	100	11 to 88	-269	+400	0.22	
SFR N	UniClad, Large Cladding, UV to VIS, Nylon Coat.	190	1250	100 to 800	140 to 1000	1300 to 2000		Nylon	100	50 to 200	-40	+100	0.20	Cladding Doped/Undoped
AFS Y	Visible to IR, Acrylate Coating	300	2400	50 to 200	125 to 220	250 to 320		Acrylate	100	13 to 44	-40	+85	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
AFS T	Visible to IR, Polyimide Coating	300	2400	50 to 600	125 to 660	145 to 710		Polyimide	50	13 to 132	-190	+350	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
AFS N	Visible to IR, Nylon Coating, Silicone Buffer	300	2400	50 to 1500	125 to 1650	295 to 1950		Nylon	100	13 to 330	-40	+100	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
AFS Z	Visible to IR, Tefzel Coating, Silicone Buffer	300	2400	100 to 1500	110 to 1650	310 to 2750		Tefzel	100	11 to 330	-40	+200	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
AFS G	Visible to IR, Gold Coating	300	2400	50 to 400	125 to 440	155 to 510		Gold	50	13 to 88	-269	+700	0.22	AFM (Low Numerical Aperture, 0.12), AFH (High N.A., 0.26)
AFSH Z	Cladding Hard Coated, Visible to IR, Tefzel Coat.	300	2400	200 to 910	240 to 1000	400 to 1400		Tefzel (Natural)	100	24 to 200	-40	+200	0.22	
AFSH C	Cladding Hard Coated, Visible to IR, Tefzel Coat.	300	2400	200 to 910	240 to 1000	400 to 1400		Tefzel (Blue)	100	24 to 200	-40	+200	0.22	
APCH Z	Hard Polymer Cladding, VIS to IR, Tefzel Coating	300	2400	200 to 1500	230 to 1550	500 to 2000		Tefzel (Natural)	100	20 to 300	-40	+200	0.37	
APCH C	Hard Polymer Cladding, VIS to IR, Tefzel Coating	300	2400	200 to 1500	230 to 1550	500 to 2000		Tefzel (Blue)	100	20 to 300	-40	+100	0.37	
APC N	Polymer Cladding, Visible to IR, Nylon Coating	300	2400	200 to 2000	300 to 2150	370 to 2300		Nylon	100	20 to 400	-40	+100	0.37	
AFR N	UniClad, Large Cladding, VIS to IR, Nylon Coat.	300	2400	100 to 800	140 to 1000	1300 to 2000		Nylon	100	50 to 200	-40	+100	0.20	Cladding Doped/Undoped
AGI Y	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	250		Acrylate	100	13 to 25	-40	+85	0.200 / 0.275	
AGI T	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	145		Polyimide/Thermocoat	100	13 to 25	-190	+350	0.200 / 0.275	
AGI A	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	175		Aluminium	100	13 to 25	-269	+400	0.200 / 0.275	
AGI G	Graded Index, Optimized for 850 nm & 1300 nm	850	1300	50 / 62.5	125	155		Gold	100	13 to 25	-269	+700	0.200 / 0.275	
MM50-MT	Mid-Temperature Acrylate Coating	850	1300	50	125	245		Acrylate	100		-60	+150	0.20	200 µm Coating Ø, H (Hermetic Layer), XMT (Ext. Temp. +180 °C)
MM50BI-OMX-MT	Bend Insensitive, Mid-Temp. Acrylate Coating	850	1300	50	125	242		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)
MM50BI-XMT	Bend Insensitive, Mid-Temp. Acrylate Coating	850	1300	50	125	245		Acrylate	100 / 200	7.5	-60	+180	0.20	H (Hermetic Layer)
MMFHA	Hermetic Layer, No Hydrogen Aging	850	1300	50	125	245		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		Proof Test [kPSI]	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Options
PM 400	Extremely High Birefringence, Low Attenuation	330 to 400	125	245, 400, 900	Acrylate, Polyester-Elastomer		100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
RGB PM	Optimized for RGB Band (405 nm to 630 nm)	400	125	245	Acrylate		200	30	-40	+85	
PM 480	Extremely High Birefringence, Low Attenuation	400 to 470	125	245, 400, 900	Acrylate, Polyester-Elastomer		100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
PM 630	Extremely High Birefringence, Low Attenuation	520 to 620	125	245, 400, 900	Acrylate, Polyester-Elastomer		100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
PM 850	Extremely High Birefringence, Low Attenuation	650 to 800	125	245, 400, 900	Acrylate, Polyester-Elastomer		100 / 200		-40	+85	Various Coating Materials incl. Flame Retardant, High Numerical Aperture, Low Birefringence
PM 980	Extremely High Birefringence, Low Attenuation	870 to 950	125	145, 245, 400, 900	Acryl., Poly.-Elast., Polyimide		100 / 200		-40	+85	Coating Mat. incl. Fl. Ret. & Polyimide, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
PM 1300	Extremely High Birefringence, Low Attenuation	1100 to 1290	125	145, 245, 400, 900	Acryl., Poly.-Elast., Polyimide		100 / 200		-40	+85	Coating Mat. incl. Fl. Ret. & Polyimide, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
PM 14XX	Extremely High Birefringence, Low Attenuation	1200 to 1380	125	245, 400, 900	Acrylate, Polyester-Elastomer		100 / 200		-40	+85	Coating Mat. incl. Flame Retardant, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
PM 1550	Extremely High Birefringence, Low Attenuation	1290 to 1450	125	145, 245, 400, 900	Acryl., Poly.-Elast., Polyimide		100 / 200		-40	+85	Coating Mat. incl. Fl. Ret. & Polyimide, RC (Reduced Cladding, 80 µm), High N.A., Low Birefringence
BIPM 1550	Bend Insensitive, Extr. High Biref., Low Att.	1440	125	254, 400, 500	Acrylate, Polyester-Elastomer		200	7.5, 15.0	-40	+85	Various Coating Materials incl. Flame Retardant
PMSR 1550	Bend Insensitive, Extr. High Biref., Low Att.	1440	125	254, 500, 900	Acrylate, Polyester-Elastomer		200	15.0	-40	+85	Various Coating Materials incl. Flame Retardant

polarization maintaining (PM) fibers

doped fibers

Name	Specialty	Cut-off Wavelength (nominal) [nm]	Cladding Outside Diameter [µm]	Coating Outside Diameter [µm]		Coating Material	Proof Test [kPSI]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture (N.A., nominal)
ER 1550C3 LC	Erbium-Doped Fiber, Low Cut-off	980	125	245		Acrylate	100	-60	+85	0.22
ER 1550C3	Erbium-Doped Fiber, Dual Acrylate Coating	1300	125	245		Acrylate	100	-60	+85	0.23
RC ER 1550C3	Erbium-Doped Fiber, Reduced Cladding	1300	80	165		Acrylate	100	-60	+85	0.23
ER 1600L3	Erbium-Doped Fiber, Dual Acrylate Coating	1400	125	245		Acrylate	100	-60	+85	0.23
RC ER 1600L3	Erbium-Doped Fiber, Reduced Cladding	1400	80	165		Acrylate	100	-60	+85	0.23

doped fibers

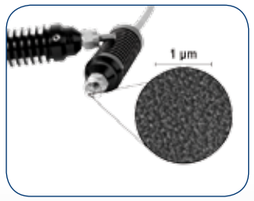
plastic optical fibers

Name	Specialty	Core Diameter (nominal) [µm]	Cladding Outside Diameter [µm]	Coating Outside Diameter [µm]		Coating Material	Minimum Bending Radius (recommended) [mm]	Minimum Operating Temperature [°C]	Maximum Operating Temperature [°C]	Numerical Aperture N.A., nominal)
PJS-FB	Polymethyl Methacrylate Core + Polymer Clad	240	250				9	-55	+85	0.63
PGS-FB	Polymethyl Methacrylate Core + Polymer Clad	240	250 / 265				9	-55	+70	0.50
PJR-FB	Polymethyl Methacrylate Core + Polymer Clad	240 to 1480	250 to 1600				9	-55	+85	0.63
PGR-FB	Polymethyl Methacrylate Core + Polymer Clad	240 to 2980	250 to 3000				9, 20	-55	+70	0.50
PFU-FB	Polymethyl Methacrylate Core + Polymer Clad	485 to 980	500 to 1000				17	-55	+85	0.46
PFU-CD	Single or double fibers w. PE/Polyamide Coat	485 to 980	500 to 1000	500 to 4400		PE, Polyamide12	17	-55	+85	0.46
PGS-CD	Single or double fibers with PE Coating		500 to 1000	1000 to 4400		PE	9, 20	-55	+70	0.50
PJU-FB	Polymethyl Methacrylate Core + Polymer Clad	486 to 980	500 to 1000				9	-55	+85	0.63
PJS-CD	Single fibers with PE/Polyamide Coating		500 to 1000	1000 to 2200		PE, Polyamide12	9	-55	+85	0.63
PGU-FB	Polymethyl Methacrylate Core + Polymer Clad	486 to 1480	500 to 1500				9, 20	-55	+70	0.50
PGU-CD	Single or double fibers with PE Coating	486 to 1480	500 to 1500	1000 to 4400		PE	9, 20	-55	+70	0.50
PFU-UD	Single or double fibers with PVC Coating	485 to 980	1000	2200 to 4400		PVC, UL Grade VW-1	17	-55	+85	0.46
PFD	Polymethyl Methacrylate Core + Polymer Clad		1000	2300		Polyam. 12/Flame retard. PA	9	-55	+85	0.50
PGR-CD	Single or double fibers with PE Coating		1500 to 2000	2800 to 3000		PE	20	-55	+70	0.50

plastic optical fibers

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

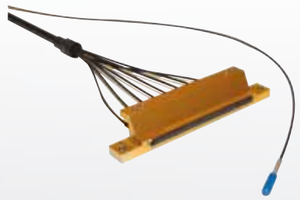
With its very broad range of equipment AMS Technologies supports every step in the processing, assembly and maintenance of optical fiber. Here you find everything from manual and thermal strippers to adhesive dispensing and injection systems for fiber optics and ferrules including optical adhesives, 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.

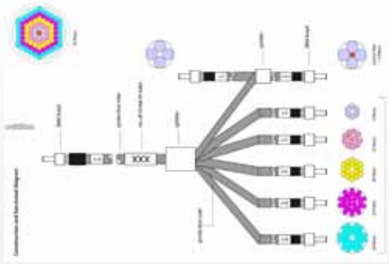
amsTECHNOLOGIES
where technologies meet solutions

from technology components to turnkey solutions

fiber bundles

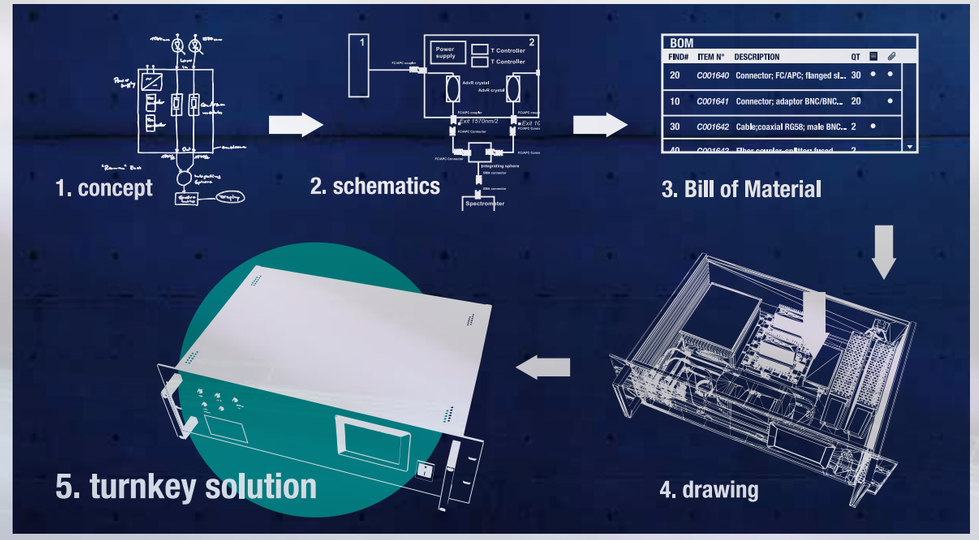
AMS Technologies has a proven track record of working with our OEM customers to design and build the most different configurations of bundled assemblies for a wide variety of photonics systems. These are used for performing optical sensing and laser power delivery for industrial, medical, military and 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.



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