ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *VIAVI Solutions / JDSU HA9W1+20KSC1* at our website: *Click HERE*

PARAMETER	HA1	HA9	HA9W	HA9P	HA10	HA11
Operating wavelength range	1200-1700 nm	1200-1700 nm	750-1700 nm	980-1100 nm	1520-1630 nm	1200-1700 nm
Attenuation[1] range	100 dB	100 dB	60 dB	60 dB	30 dB	60 dB
resolution	0.001 dB	0.01 dB	0.01 dB	0.01 dB	0.01 dB	0.01 dB
repeatability[2]	± 0.01 dB	± 0.01 dB	± 0.01 dB	± 0.01 dB	± 0.01 dB	± 0.01 dB
change rate	< 2.5 s	< 2.5 s	< 1.5 s	< 1.5 s	< 1.0 s	< 1.5 s
	0-100 dB	0-100 dB	0-60 dB	0-60 dB	0-30 dB	0-60 dB
accuracy[3]	± 0.1 dB	± 0.1 dB	± 0.1 dB	± 0.1 dB	± 0.1 dB	± 0.1 dB
Insertion loss[4,5,6] single-mode (SM)	< 1.5 dB	< 1.5 dB	< 5.0 dB	-	< 0.8 dB	< 1.5 dB
multimode (MM), 50/125µm	-	< 2.2 dB	< 3.2 dB	-	-	-
MM, other	-	< 2.9 dB	< 3.9 dB	-	-	-
Flexcor 1060	-	-	-	< 2.5 dB	-	-
Return loss[4,7] SM	-	> 45 dB	> 45 dB	-	-	-
SM, analog[7]	> 60 dB	> 60 dB	> 60 dB	-	> 60 dB	> 60 dB
MM, 50/125 µm	-	> 35 dB	> 35 dB	-	-	-
MM, other	-	> 30 dB	> 30 dB	-	-	-
Flexcor 1060	-	-	-	> 60 dB	-	-
Wavelength dependence[4] (1530-1625 nm)	-	-	-	-	± 0.1 dB	-
Maximum optical input power	200 mW	200 mW	200 mW	200 mW	100 mW	500 mW
Recalibration period (recommended)	2 years					
Polarization dependent loss[4,7]	0.03 dB typical, 0.08 dB maximum					
Beam block attenuation	> 90 dB					
Input voltage	90-240 V AC, 50-60 Hz					
Power consumption	80 VA maximum					
Dimensions (W x H x D)	21.2 x 8.9 x 35.5 cm 19 inch (48.26 cm) rack mounting 2U high					
Weight	4 kg					
Operating temperature	0 to 40 °C					
Storage temperature	- 40 to 60 °C					
Humidity	maximum 90 % up to 40 °C decreasing 5 % from 40 to 60 °C					

1. The attenuation range is a continuous function of wavelength.
2. At constant temperature, wavelength, and polarization state after half hour warm-up.
3. With optimization of the calibration wavelength or user slope. If optimization is not performed, accuracy is the greater of ± 0.1 dB or ± 0.004 dB/dB from 1260-1360 nm and from 1450-1570 nm. At other wavelengths, the accuracy is the greater of ± 0.1 dB or ± 0.015 dB/dB if optimization is not performed.
4. Measured at 23 °C with a laser source.
5. Not including connectors, switch, or coupler (if installed).
6. Over 850-1600 nm. Insertion loss is typically highest at wavelength extremes.
7. Total of discrete reflections. Does not include distributed reflection in fiber.

Sample Order: HA097+28KFA1

HA □ □ □ +2 □ □ □ □ □

CODE	MODEL
01	HA1
09	HA9
9P	HA9P
9W	HA9W
10	HA10
11	HA11

CODE	PORT TYPE
1	Bulkheads on front
2	Bulkheads on back
3	Pigtails on front (2.5 m)
4	Pigtails on back (2.5 m)
7	UCA bulkheads on front

CODE	CONNECTOR TYPE (ALL PORTS)
FP	FC/HPC
FA	FC/APC
SC	SC/HPC
SU	SC/APC
SP	ST/HPC
NC	No connector

CODE	FIBER TYPE (µm)
7	9/125
1	50/125 (HA9 and HA9W only)
2	62.5/125 (HA9 and HA9W only)
8	Flexcor 1060 (HA9P only)

CODE	BUILT-IN OPTIONS
0	None
1	50/50 coupler (HA1 and HA9 only)
4	2/98 coupler (HA1 and HA9 only)
5	30/70 coupler (HA1 and HA9 only)
8	1:2 switch (HA1 and HA9 only)
9	10/90 coupler (HA1 and HA9 only)

CODE	RETURN LOSS
K	Low (HA9 and HA9W)
A	Analog

Flexcor is a registered trademark of Corning Incorporated.
UL is a registered trademark of Underwriters Laboratories Inc.
ST is a registered trademark of Lucent Technologies.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP