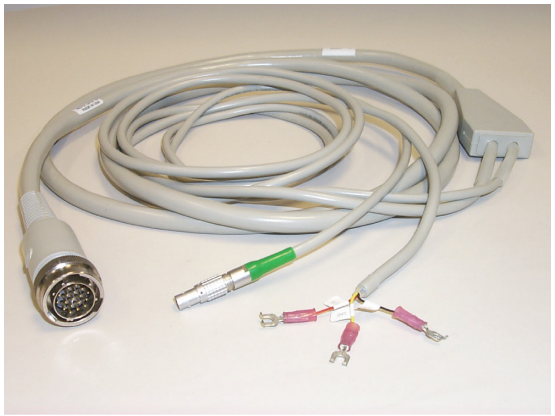
Quick Fact Sheet

Agilent Laser Interferometer System Cables

Agilent offers a selection of cables, both fiber optic and wire, for use with Agilent Laser Interferometer systems. To interconnect the laser system components, most systems will need at least one each of the three cable types:

- Fiber optic cable (remote lens assembly to remote or integrated receiver)
- Receiver cable (remote receiver to laser axis board)
- Laser head cable (laser head to power supply and laser axis board)



10881D/E/F cable

E1847A cable

Key features

- Multiple lengths available for most cables
- High performance cables minimize errors for dynamic measurements
- Locking connectors for most cable ends prevent accidental disconnection

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Selection guide

Model	Cable type	Power connector	Lengths (m)	Usage
10880A/B/C	Receiver	–	5, 10, 20	Normal
10881A/B/C	Laser head (power and ref)	Female DIN	3, 7, 20	Normal with 10884B
10881D/E/F	Laser head (power and ref)	#6 Spade lugs	3, 7, 20	Normal with user's power supply
10882A/B/C	Laser and receiver	–	3, 7, 20	With 5519A/B and E1735A USB electronics
E1705A	Fiber optic (plastic)	–	See chart	Normal (Vpin to Vpin)
E1705B	Fiber optic (plastic)	–	See chart	Normal (ST to Vpin)
E1705C	Fiber optic (plastic)	–	See chart	Normal (ST to ST)
E1705E	Fiber optic (glass)	–	See chart	Lower signal loss (ST to Vpin)
E1705F	Fiber optic (glass)	–	See chart	Lower signal loss (ST to ST)
E1847A	Laser head (power only)	#6 Spade lugs	See chart	Integrated receivers with user's power supply
E1848A	Laser head (power only)	Male DIN	See chart	Integrated receivers with user's power supply
E1848B	Laser head (power only)	Female DIN	See chart	Integrated receivers with 10884B
N1250A/B/E/F	Receiver	–	5, 10, 12, 20	High performance
N1251B	Laser head (power and ref)	Female DIN	7	High performance with 10884B

Specific cable length options

Model	Option numbers (-XXX)	Lengths (m)	Tolerance (mm)
E1705x	004	0.2	+5, -0
	020, 025	1.0, 1.25	+10, -0
	040, 050, 060, 080, 090, 100, 110, 120, 130, 140, 150, 160, 180	2, 2.5, 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 9	+20, -0
	200, 300, 340, 400, 800	10, 15, 17, 20, 40	+100, -0
E1847A/E1848A/ E1848B	060, 140	3, 7	+150, -0
	200, 300, 400, 600	10, 15, 20, 30	+250, -0

Cable option rule (only applies to cables in this table): Option # = Cable length in mm divided by 50 mm.

For more details on Agilent interferometry systems, components and ordering information please visit **www.agilent.com/find/lasers**

Technical data, availability and pricing subject to change without notice.
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5990-8133EN

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