

Amphenol



Photo: **Amphe-Lite Non-Magnetic Connector** Plug and Receptacle with Flex Circuitry

Amphenol® Amphe-Lite™ Non-Magnetic and “Combo-C” Harsh Environment Connectors

The non-magnetic Amphe-Lite is another variation of the highly reliable industrial multi-pin interconnect that is ideal for a variety of applications.

MRI equipment is one example of an application where the nonmagnetic Amphe-Lite connector is the ideal solution. With up to 128 size 22D contacts in one connector, the non-magnetic Amphe-Lite is one of the highest density connectors, and it is one of the few 100% non-magnetic connectors available today. Not only are 22D, 20, 16 and 12 size standard contacts available, but also “Combo-C” arrangements of high speed copper contacts can be incorporated. Amphenol ACT flex circuits can also be supplied attached to the receptacle for easy installation.

Non-magnetic Amphe-Lite connectors are made of a durable corrosion resistant composite material. IP67 sealing grommets and interfacial seals are standard. These connectors are offered in three receptacle shell styles (wall mount, in-line and jam nut) and a straight plug. The coarse triple start thread allows for complete mating in a single 360° turn of the coupling nut.

Ordering information for Non-Magnetic Amphe-Lite connectors - Just add (NMG) suffix to any standard Amphe-Lite part number.

Standard unplated Amphe-Lite part numbering: AL06U13-35S

Non-Magnetic Amphe-Lite part numbering: AL06U13-35S (NMG)

Amphe-Lite “Combo-C” Insert Availability

| | Service Rating | Total Contacts | 22D | 20 | 16 | 12 | | | | |
|-------|----------------|----------------|-----|----|----|----|---|--|---|---|
| 11-2 | I | 2 | | | 2 | | | | | |
| 13-4 | I | 4 | | | 4 | | | | | |
| 13-13 | I, Fiber Optic | 4 | | | 2 | 2 | | | | |
| 15-5 | II | 5 | | | 5 | | | | | |
| 15-15 | I | 15 | | | 1 | | | | | |
| 15-97 | I | 12 | | 14 | 4 | | | | | |
| 15-AC | M | 26 | 24 | 8 | 2 | | | | | |
| 17-2 | M | 39 | 38 | | | | | | | |
| 17-8 | II | 8 | | | 8 | | | | | 1 |
| 17-22 | Coax | 4 | | | | | | | | |
| 17-31 | M | 19 | 4 | 11 | 4 | | 2 | | 2 | |
| 17-99 | I | 23 | | 21 | 2 | | | | | |
| 19-11 | II | 11 | | | 11 | | | | | |
| 19-28 | I | 28 | | 26 | 2 | | | | | |
| 19-31 | M | 15 | 12 | | | 1 | | | 2 | |
| 21-11 | I | 11 | | | 11 | | | | | |
| 21-29 | I | 27 | | 19 | 4 | 4 | | | | |
| 21-39 | I | 39 | | 37 | 2 | | | | | |
| 21-79 | II | 19 | 17 | | | | | | 2 | |
| 23-21 | II | 21 | | | 21 | | | | | |
| 23-54 | M | 53 | 40 | | 9 | 4 | | | | |
| 25-4 | I | 56 | | 48 | 8 | | | | | |
| 25-7 | Twinax | 99 | 97 | | | | | | | 2 |
| 25-17 | M | 42 | 36 | | | | | | | 6 |
| 25-24 | I | 24 | | | 12 | 12 | | | | |
| 25-26 | I | 25 | | 16 | | 5 | | | 4 | |
| 25-41 | N/Inst. | 41 | 22 | 3 | 11 | | 2 | | | 3 |
| 25-43 | I | 43 | | 23 | 20 | | | | | |
| 25-46 | I | 46 | | 40 | 4 | | | | 2 | |
| 25-90 | I | 46 | | 40 | 4 | | | | | 2 |
| 25-F4 | M/I | 66 | 49 | | 13 | 4 | | | | |



AMPHE-LITE “COMBO-C”

Amphenol’s “Combo-C” inserts allow for the use of standard signal / power, highspeed copper contacts and fiber optics in a single connector: standard signal and power are available in contact sizes 22D to 10; high-speed copper are available in contact sizes 16, 12 and 8 coax, sizes 12 and 8 twinax, and sizes 12, 10 and 8 triax. The newest high-speed copper contacts available are the size 8 quadrax and size 8 differential twinax. These contacts are capable of supporting data rates up to 2 Gb/sec and bandwidths of up to

3 GHz. Fiber optic termini are available for many of the single-mode and multi-mode fiber used in the industry. There are over 30 “Combo-C” insert arrangements available for the Amphe-Lite connector series. (These are listed on the back.) The number of contacts available ranges from 2 to 46 per connector. Amphe-Lite “Combo-C” connectors are used in various applications in the medical, heavy equipment and rail/mass transit market segments.



Amphe-Lite “Combo-C”
Fiber Optic Termini,
High-Speed Coax Contacts
& Standard Contacts

For additional information on the Amphe-Lite family of connectors, please ask for Catalog 12-094.

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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