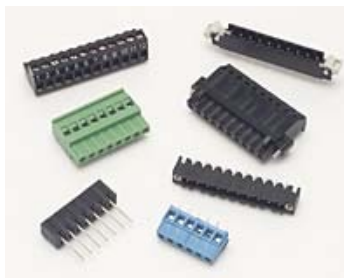# ELF Accessories and Variations

**ELF OPTIONS**
Optional plug and header accessories and variations, as detailed below, greatly expand the application range and flexibility of the ELF line. Please contact Amphenol Pcd for additional details or application guidance.
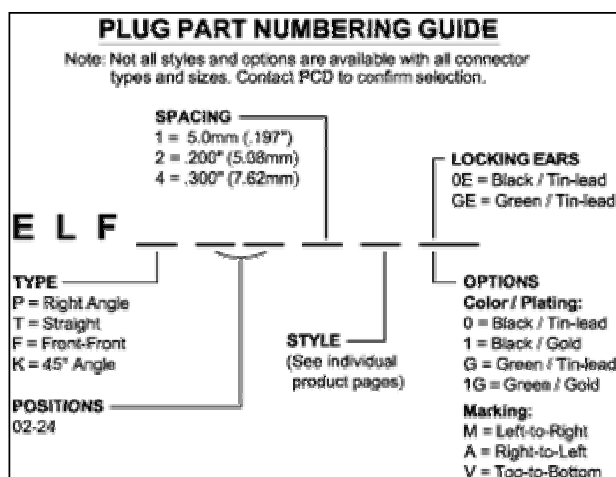
**SMT Compatibility**
ELF headers are also available in ultra-high-temperature glass-filled polyamide, capable of withstanding temperatures of 260°C for three minutes while undergoing SMT reflow soldering. This eliminates the need for a separate header wave soldering operation if SMT is being employed in the board manufacturing process. See the Part Numbering Guides on these pages for ordering information.

**Color**
The standard color for ELF Series plugs and headers is black, but all ELF products are also available in green—with the same Amphenol Pcd Express delivery commitment. Catalog numbers for both options are indicated on individual pages throughout. Consult Amphenol Pcd for other colors and color-matching.

**PLUG PART NUMBERING GUIDE**

Note: Not all styles and options are available with all connector types and sizes. Contact PCD to confirm selection.

SPACING
1 = 5.0mm (.197")
2 = .200" (5.08mm)
4 = .300" (7.62mm)

LOCKING EARS
0E = Black / Tin-lead
GE = Green / Tin-lead

E L F

TYPE
P = Right Angle
T = Straight
F = Front-Front
K = 45° Angle

POSITIONS
02-24

STYLE
(See individual product pages)

OPTIONS
Color / Plating:
0 = Black / Tin-lead
1 = Black / Gold
G = Green / Tin-lead
1G = Green / Gold

Marking:
M = Left-to-Right
A = Right-to-Left
V = Top-to-Bottom

**Gold Plated Contacts**
Standard contact plating is tin-lead. Selectively gold plated contacts—.000030" gold over .000050" nickel—are also available for critical applications involving low-level circuits or severe environmental considerations. See Part Numbering Guides for ordering information.
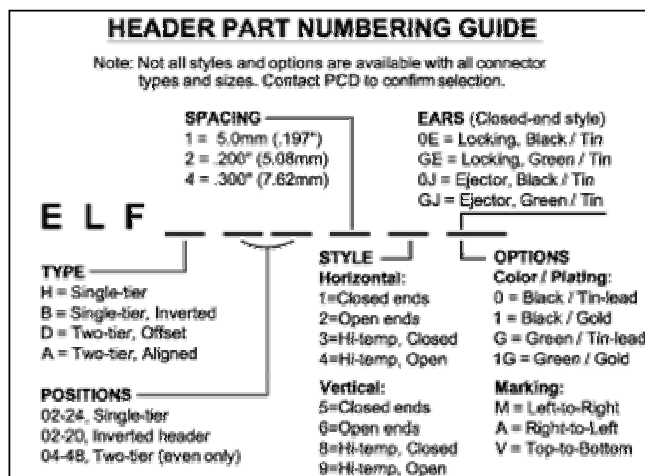
**Locking Ears**
Integrally molded locking ears are available with all ELF plug and ELFH header combinations for use in high stress or high vibration applications, or to prevent unintentional disconnect. Plug ears capture a floating, slot-head locking screw that engages a threaded insert on the header ear. The mounting screw is tightened after plug and header are mated, firmly securing the connection.

The plug ear and locking screw can also be used in special applications to secure the plug directly to a bulkhead, if threading provisions are made in the chassis.

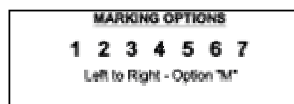To specify locking ears, add "E" as the tenth digit of the catalog number.

**HEADER PART NUMBERING GUIDE**

Note: Not all styles and options are available with all connector types and sizes. Contact PCD to confirm selection.

SPACING
1 = 5.0mm (.197")
2 = .200" (5.08mm)
4 = .300" (7.62mm)

EARS (Closed-end style)
0E = Locking, Black / Tin
GE = Locking, Green / Tin
0J = Ejector, Black / Tin
GJ = Ejector, Green / Tin

E L F

TYPE
H = Single-tier
B = Single-tier, Inverted
D = Two-tier, Offset
A = Two-tier, Aligned

POSITIONS
02-24, Single-tier
02-20, Inverted header
04-48, Two-tier (even only)

STYLE
Horizontal:
1=Closed ends
2=Open ends
3=Hi-temp, Closed
4=Hi-temp, Open
Vertical:
5=Closed ends
6=Open ends
8=Hi-temp, Closed
9=Hi-temp, Open

OPTIONS
Color / Plating:
0 = Black / Tin-lead
1 = Black / Gold
G = Green / Tin-lead
1G = Green / Gold

Marking:
M = Left-to-Right
A = Right-to-Left
V = Top-to-Bottom

**Mounting Ears**
Header locking ears, with threaded inserts, can also be used as mounting ears to secure headers to PC boards (vertical mount) or chassis. Alternatively, headers or plugs can be provided with integral mounting ears which feature the same external dimensions as the locking ears, and through-holes for mounting purposes. Contact Amphenol Pcd for details.

**Ejector Ear Headers**
ELFH Ejector headers, which feature rotating cam ejector ears that are screwdriver- or finger-actuated to smoothly force out and disconnect plugs, are available as another option. Add "J" as a tenth catalog number digit to specify these headers.

**MARKING OPTIONS**
1 2 3 4 5 6 7
Left to Right - Option "M"

**Marking**
ELF plugs are available with a variety of marking options. Standard options include left-to-right horizontal numbers ("M" as the ninth digit of the catalog

number), right-to-left horizontal numbers ("A") and top-to-bottom vertical numbers ("V").

Please contact Amphenol Pcd regarding header marking, or to discuss requirements for special plug or header marking. Click **HERE** for additional information regarding marking, keying and other special variations.

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