

# Modular Plugs for Specialty Cables



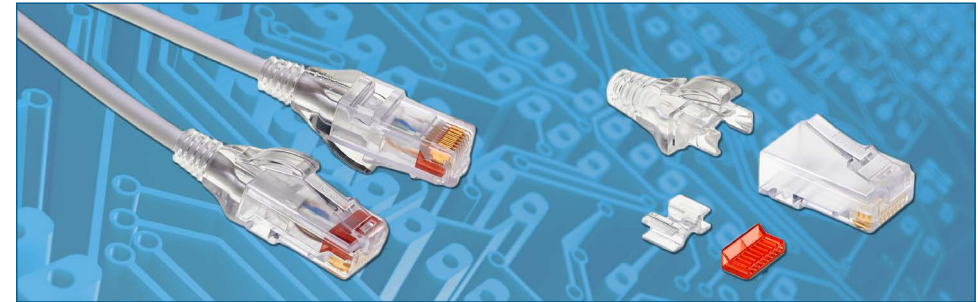
Loadbar and wire aligner system provide for consistent assembly and stable electrical performance.

## CAT6a Large Diameter Plugs

- Field installable plug for cable conductors up to 0.048" and overall diameters up to .295"
- Suitable for CAT6a and CAT6 applications delivering 10G Base-T and Gigabit Ethernet
- Low profile design allows for use in high density switches and routers
- Anti-snap boot prevents plug tab damage during installation
- Packaging available for both field installation and factory terminations
- Can be used to terminate both shielded and unshielded cabling

| Part Number  | Performance | Conductor Diameter        | Cable Diameter            | Packaging           |
|--------------|-------------|---------------------------|---------------------------|---------------------|
| SS-39200-027 | CAT6a       | .042"-.048" [1.07 - 1.22] | .270"-.295" [6.86 - 7.49] | Individually Bagged |
| SS-39200-030 | CAT6a       | .042"-.048" [1.07 - 1.22] | .270"-.295" [6.86 - 7.49] | Bulk                |

Stewart Connector's Large Diameter modular plug is designed to terminate directly to CAT6a and CAT6 large diameter solid conductor cabling. Typical modular plugs are designed for use on patch cable assemblies and therefore are designed to terminate to stranded conductors of wire sizes from AWG 24 through AWG 26. However, in many direct connect, or consolidation point applications where link lengths exceed 10 Meters, a horizontal cable type is specified. Horizontal cable is normally made with solid conductor copper wire in the diameter range of AWG 23 through AWG 24. This larger copper size translates into larger conductor diameters which make terminating to a traditional modular plug problematic. Stewart's unique loadbar and contact design accommodates this large diameter cabling in the form factor of a standard RJ45 plug. To learn more visit [www.stewartconnector.com](http://www.stewartconnector.com).



Loadbar and wire aligner system provide for consistent assembly and stable electrical performance.

## CAT6 Small Diameter Plugs

- Accommodates a cable diameter up to .160"
- Accommodates AWG 28 and AWG 30 copper conductors with overall insulated conductor diameters of 0.025" – 0.030"
- Proprietary contact design reliably terminates solid or stranded conductors
- 50 µm Gold plated electro-polished contacts
- Capable of field or factory terminations with standard Stewart crimp tools

| Part Number  | Performance | Conductor Diameter        | Cable Diameter   | Packaging |
|--------------|-------------|---------------------------|------------------|-----------|
| SS-39100-039 | CAT6        | .025"-.030" [0.64 - 0.76] | .160" [4.06] Max | Bulk      |

Stewart Connector's CAT6 UTP modular plug allows users to build patch cables using small diameter AWG28 and AWG30 cabling. Most traditional patch cables are built using AWG 24 and AWG 26 cable, so industry standard plug designs are not suitable to terminate to smaller AWG28 and AWG30 cable. The Stewart design uses a unique, proprietary contact design and wire alignment system to insure proper cable to plug terminations providing reliable long term connections. The wire manager included in the plug kit allows for precise conductor placement which results in repeatable consistent assemblies and patch cord performance. Included in the plug kit is a new low profile boot design which accommodates smaller diameter cable and strain relief protection from exceeding cable manufacturer's minimum bend radius requirements. To learn more visit [www.stewartconnector.com](http://www.stewartconnector.com).

# Stewart Connector Modular Plug Quick Reference Guide

| Part Number                       | Performance | Shield | Strain Relief Boot                    | Cable Diameter            | Conductor Diameter        | Low Volume Terminations    | High Volume Factory Terminations |                    | Termination Instructions     |
|-----------------------------------|-------------|--------|---------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------------|--------------------|------------------------------|
|                                   |             |        |                                       |                           |                           | Installation Hand Tool Kit | Production Hand Tool             | Production Die Set |                              |
| <a href="#">SS-39100-028</a>      | CAT6a       | No     | Slimline Included                     | .300" [7.62] Max          | .033"-.038" [0.84 - 0.97] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN390014.PDF</a> |
| <a href="#">SS-39100-029</a>      | CAT6a       | No     | Not Included                          | .235" [5.97] Max          | .037"-.042" [0.94 - 1.07] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN390014.PDF</a> |
| <a href="#">SS-39100-030</a>      | CAT6a       | No     | Not Included                          | .235" [5.97] Max          | .033"-.038" [0.84 - 0.97] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN390014.PDF</a> |
| <a href="#">SS-39100-031</a>      | CAT6a       | No     | Slimline Included                     | .300" [7.62] Max          | .037"-.042" [0.94 - 1.07] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN390014.PDF</a> |
| <a href="#">SS-39200-020</a>      | CAT6a       | Yes    | Slimline Included                     | .220"-.240" [5.59 - 6.10] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980070-01*                      |                    | <a href="#">MN390011.PDF</a> |
| <a href="#">SS-39200-021</a>      | CAT6a       | Yes    | Not Included                          | .220"-.240" [5.59 - 6.10] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980070-01*                      |                    | <a href="#">MN390011.PDF</a> |
| <a href="#">SS-39200-022</a>      | CAT6a       | Yes    | Slimline Included                     | .230"-.250" [5.84 - 6.35] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980075-01*                      |                    | <a href="#">MN390011.PDF</a> |
| <a href="#">SS-39200-023</a>      | CAT6a       | Yes    | Not Included                          | .230"-.250" [5.84 - 6.35] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980075-01*                      |                    | <a href="#">MN390011.PDF</a> |
| <a href="#">SS-39200-024</a>      | CAT6a       | Yes    | Slimline Included                     | .230"-.250" [5.84 - 6.35] | .033"-.038" [0.84 - 0.97] | N/A                        | 2980075-01*                      |                    | <a href="#">MN390011.PDF</a> |
| <a href="#">SS-39200-027</a>      | CAT6a       | Yes    | Slimline Included                     | .270"-.295" [6.86 - 7.49] | .042"-.048" [1.07 - 1.22] | N/A                        | 2980078-01*                      |                    | <a href="#">MN390015.PDF</a> |
| <a href="#">SS-39100-008</a>      | CAT6        | No     | Slimline Included                     | .220"-.230" [5.59 - 5.84] | .037"-.042" [0.94 - 1.07] | 2990009-01                 | 2940231-01                       | 2905029-01         | <a href="#">MN390006.PDF</a> |
| <a href="#">SS-39100-011</a>      | CAT6        | No     | Slimline Included                     | .240"-.250" [6.10 - 6.35] | .037"-.042" [0.94 - 1.07] | 2990009-01                 | 2940231-01                       | 2905029-01         | <a href="#">MN390006.PDF</a> |
| <a href="#">SS-39100-021</a>      | CAT6        | No     | Not included - See boot PN: 450-034   | .235" [5.97] Max          | .037"-.042" [0.94 - 1.07] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN390010.PDF</a> |
| <a href="#">SS-39100-039</a>      | CAT6        | No     | Slimline Included                     | .160" [4.06] Max          | .025"-.030" [0.64 - 0.76] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN390017.PDF</a> |
| <a href="#">SS-39200-010</a>      | CAT6        | Yes    | Not Included                          | .240"-.260" [6.10 - 6.60] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980075-01*                      |                    | <a href="#">MN390009.PDF</a> |
| <a href="#">SS-39200-011</a>      | CAT6        | Yes    | Included                              | .232"-.248" [5.90 - 6.30] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980075-01*                      |                    | <a href="#">MN390009.PDF</a> |
| <a href="#">SS-39200-012</a>      | CAT6        | Yes    | Not Included                          | .220"-.240" [5.59 - 6.10] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980070-01*                      |                    | <a href="#">MN390009.PDF</a> |
| <a href="#">SS-39200-015</a>      | CAT6        | Yes    | Included                              | .220"-.240" [5.59 - 6.10] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980070-01*                      |                    | <a href="#">MN390009.PDF</a> |
| <a href="#">SS-39200-019</a>      | CAT6        | Yes    | Not included - See boot PN: 39200-883 | .270"-.295" [6.86 - 7.49] | .037"-.042" [0.94 - 1.07] | N/A                        | 2980078-01*                      |                    | <a href="#">MN390009.PDF</a> |
| <a href="#">SS-37000-007</a>      | CAT5E       | No     | Not included - See boot PN: 450-034   | .235" [5.97] Max          | .037"-.042" [0.94 - 1.07] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN370053.PDF</a> |
| <a href="#">SS-37000-009</a>      | CAT5E       | No     | Not included - See boot PN: 450-034   | .235" [5.97] Max          | .042"-.048" [1.07 - 1.22] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN370053.PDF</a> |
| <a href="#">SS-37200-028</a>      | CAT5E       | Yes    | Not included - See boot PN: 450-011   | .235" [5.97] Max          | .037"-.042" [0.94 - 1.07] | 2990003-01                 | 2940231-01                       | 2905014-01         | <a href="#">MN370058.PDF</a> |
| <a href="#">940-SP-3088R-A133</a> | Cat5 / T1   | No     | Not included - See boot PN: 450-011   | .235" [5.97] Max          | .035"-.040" [0.89 - 1.02] | 2990003-01                 | 2940231-01                       | 2905005-01         | <a href="#">MN300015.PDF</a> |

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Termination Instructions available at [stewartconnector.com](http://stewartconnector.com)

\* Tool kits including Hand Tool and Die Set

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