

### Product Overview

The Power & Signal Group provides a full range of fasteners. With Customised Application Specific Fasteners as well as standard fastener products customers can solve almost any kind of wire harness fastening and securing problem.

### Market Segments

Automotive  
Non-Automotive  
Military  
Aerospace

### Features and Benefits

- Hole and stud ties for all standard holes and stud sizes available
- Broad range of offset features allowing straight cable lines
- Curve strap design allows single wire bundle
- Half flute Fir tree feature allows low insertion force
- Special designs for convoluted conduits available
- Customized designs on short term available

### Typical Applications

- Fastening and securing Wire harnesses
- Fastening and securing Fluid lines
- Transport security
- Seal for safety and security applications

**NOTE:** For further information regarding Application Specific Fasteners please contact your Power & Signal Group representative.



### Application Guidelines



#### Standard ties

- Made of high quality standard or weather resistant material
- Different colors for handling guidance or marking
- Heavy Duty applications
- Ladder ties for flexibility

#### Fir tree ties



- For punched, round, oval, threaded and Hex holes
- Strong retention
- New improved low insertion fir competes with Arrow
- Dish offers best stability

#### Arrows ties



- Low insertion force
- Hole must be perfectly round
- Used for thick panels
- Wings offer stability
- For slotted or rectangular holes

#### Stud ties



- Allows utilization of studs and bolts along the harness line
- Tie can be fixed with nut for increased retention

### Application Specific Fasteners

The part numbers below represent only a small number of Application Specific Fasteners out of a broad range of available products.



F20051, F20044, F20065, F20085



F20087, F10711



F20042, F20038 (Innovative Curve Design)



F20014, F20013, F10708



F20040, F20060



F20005, F20027



F10709, F10710, F20079, F20050

### Application Tooling



For fast and reliable operations Power&Signal Group provides rugged, lightweight manual cable tie installation tool and for volume applications pneumatic cable tie installation tools .

**NOTE:** For correct reference of cable tie P/N to application tools please contact your Power & Signal Group Representative.

For drawings, data sheets or 3-D CAD models, call our engineering department.  
For pricing and samples, contact your Power & Signal Group Representative. Or, visit us on the web at [www.powerandsignal.de](http://www.powerandsignal.de).

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