



RAYCHEM MATCHED IMPEDANCE SPLICES

FAST, EASY REPAIRS THAT MAINTAIN THE COAXIAL CABLE'S
ELECTRICAL CHARACTERISTICS

MATCHED IMPEDANCE

- Maintains cable's electrical properties
- Meets MIL-PRF-32517 performance requirements
- Matches cable's impedance +10%/-3%

TIME AND COST SAVING

- Repairs made in situ
- No need to remove or replace cable

SEALED

- Heat-shrinkable outer layer plus thermoplastic adhesive for sealing and strain relief

ROBUST

- Withstands high vibration
- Corrosion resistant
- Wide temperature range
- Excellent fluid resistance
- Suitable for high EMI environments

APPLICATIONS

- Military Aerospace
- Commercial Aerospace

With the matched impedance splice, TE Connectivity (TE) solves the problem of costly removal and replacement of damaged coaxial cable. Not only does the new splice allow fast, easy repair of the cable in situ, it maintains the characteristic impedance and other electrical properties. System performance is not affected by the repair.

SAVE TIME AND MONEY

Removing and replacing a damaged coaxial cable can be time consuming and expensive. The matched impedance splice's ability to be applied without removing the cable can significantly speed the repair, saving time and cost.

SIMPLE AND EFFECTIVE

The splice contains three components: a hexagonal crimp barrel for the center conductors, a dielectric shell that helps maintain cable geometry for impedance control, and a SolderShield splice that both terminates the cable's shield and provides sealing to protect the splice environmentally.

The SolderShield splice uses a flux-coated, solder-impregnated copper shield inside an adhesive-lined, heat-shrinkable sleeve. The completed assembly provides an environmentally sealed termination and strain relief.

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH
SEACON Phoenix | L.L. Rowe | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.

Raychem Matched Impedance Splices

Fast, Easy Cable Repair

SPECIFICATIONS

Electrical

| | |
|-------------------------------|-----------------|
| Impedance: | MIL-PRF-32517 |
| Insertion Loss: | MIL-PRF-32517 |
| Return Loss: | MIL-PRF-32517 |
| Insulation Resistance: | 5000 M Ω |

Environmental/Mechanical

| | |
|----------------------------|-------------------|
| Altitude Immersion: | 75,000 ft |
| Heat Aging: | 750 hr. at +165°C |
| Temperature Range: | -55° C to 150°C |

Cable Compatibility

| | |
|---------------------|--------|
| Cable Types: | RG-393 |
|---------------------|--------|

TE Specifications

| | |
|------------------------------------|-------------------------|
| Application Specification: | D-6204 |
| Product Specification: | D-6204 |
| Qualification Test Reports: | HT4203 (for D-150-Z393) |
| Installation Instructions: | RPIP-1108 |

PART NUMBERS

| Cable Type | Part Number |
|------------|-------------|
| RG-393 | D-150-Z393 |



te.com/matched-impedance-splice

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Consult TE for the latest dimensions and design specifications.

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