



HDPE Electrofusion Fittings Specification Sheet

Product Type: Electrofusion Fittings for HDPE Pressure Pipe

Applicable Standards: ASTM F1055, ISO 4427/4437, AWWA C901/C906, NSF/ANSI 14 & 61

1. Product Description

HDPE Electrofusion (EF) fittings are used to create strong, permanent joints in PE piping systems using embedded heating elements. These fittings are ideal for gas, water, and industrial systems where traditional butt fusion is impractical or space-limited.

2. Product Specifications

Attribute	Specification
Material	PE100 / PE4710 High-Density Polyethylene
Fusion Type	Electrofusion with embedded copper/steel heating coils
Conformity	ISO 4427/4437, ASTM F1055, AWWA C901/C906, NSF
Pressure Rating	Up to 230 psi @ 73°F (depending on SDR and size)
Size Range	½" to 24" IPS (larger available upon request)
SDR Compatibility	SDR11 (standard), SDR17, others upon request
Voltage Range	40V to 48V typical, barcode & manual programmable
Color	Black (Black Carbon)
Installation Temp	-10°C to 45°C (14°F to 113°F)

3. Features & Benefits

- No flame or open heat source required
 - Ideal for trenchless, repair, or confined space applications
 - Integrated fusion indicator pins for joint confirmation
 - Barcode-enabled fusion input (ISO 13950 compatible)
 - High-strength, leak-proof joints
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4. Standards Compliance

Standard	Description
ASTM F1055	Electrofusion fittings for HDPE pipe systems
ISO 4427 / ISO 4437	PE piping systems for water/gas, electrofusion fittings
AWWA C901/C906	HDPE pressure piping for potable water
NSF/ANSI 14 & 61	Certified for use in potable drinking water systems
ISO 13950	Barcode-based electrofusion control interface

5. Installation Requirements

- Clean and scrape pipe surfaces as per ASTM F2620 (See our Install Guide)
 - Use compatible fusion control unit (FCU) with temperature logging
 - Observe barcode or manual settings (fusion time & voltage)
 - Clamp fittings during cooling to prevent movement
 - Follow manufacturer-specific fusion charts
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6. Quality Assurance

- 100% coil resistance testing during production
- Batch traceability printed or molded into each fitting
- ISO 9001 manufacturing facilities
- Compatible with all major EF Machines (barcode & manual)
- Certified by NSF/ANSI 14 & 61 for potable water