“I wish I could get greater cable tunnel protection with less impact.”
**AquaMist ULF for Cable Tunnels**

Rapid suppression. Minimal disruption.

AquaMist ULF for cable tunnels is a low pressure fire suppression water mist system with a high cooling effect, low water consumption, and minimal impact in the protected area.

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**BENEFITS**

- AquaMist’s small water droplets have a high cooling effect to quickly remove heat from the fire.
- Small water droplets can more easily move past obstructions to reach the fire.
- AquaMist ULF can minimize post-discharge water treatment and clean-up costs.
- Less water demand can result in:
  - Smaller storage tanks
  - Smaller, less costly pumps
  - Smaller diameter pipes
  - Less clean up

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**FEATURES**

- Complete system design (pipe, pump, detection)
- Extensive third-party testing and validation
- More compact components can reduce space requirements and facilitate installation
- Lower installation costs compared to high-pressure systems
- Can be configured for zoned area protection
- Optional fully integrated solution designed to guarantee compatibility between detection and suppression systems
- Can be integrated with other protected areas (e.g., machinery spaces) of same system

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Visit www.tycoaquamist.com for more information
PROTECTING CRUCIAL RESOURCES
Modern cities depend on the integrity of cable tunnels. Underground tunnels can extend for long distances and are part of the vital information and energy infrastructure that serves commercial, industrial and residential needs.

PROMPT SUPPRESSION IS VITAL
Rapid suppression is required to limit the immediate effects of a cable tunnel fire.

Structural damage
Temperature control

MINIMAL DISRUPTION IS ESSENTIAL
The impact of a cable tunnel fire can have serious economic consequences that exceed the expense of the physical damage.

Business interruption
Cable replacement cost

MEETING THE UNIQUE CHALLENGES IS KEY
Cable tunnels are ventilated and not air-tight, limiting fire extinguishing system options.
Highly obstructed environments make it difficult to get suppressant onto the fire
Rubber-coated cables produce thick, toxic smoke when they burn
Length of tunnels requires a zoned approach to fire containment and suppression
Heat and smoke conditions in the constrained environment make access difficult for first responders

1. Nozzle AM4
   Low pressure nozzles utilizing a single fluid jet impinging on a diffuser to produce a range of water droplet sizes to reduce heat and penetrate the fire zone.
   Nozzles have been through rigorous component testing aimed to ensure they are fit for installation in challenging environmental conditions.
   NOZZLE AM4 TECH DATA
   K = 3.5 lpm/bar\(^{1/2}\)
   K=0.24 GPM/psi\(^{1/2}\)
   Minimum Pressure: 12 bar
   Nozzle Flow rate: 12.2 lpm
   Water density of 8 liters per min/m
   \(\frac{1}{2}\) inch NPT Thread Connection
   Stainless Steel

2. Valves
   Electrically operated Deluge valve with a pressure rating of 17.2 bar.
   Valves are FM/LPCB/C-UL approved.

3. Pump Skid
   The TYCO AQUAMIST Mist Control Center (MCC) Pump Skid Unit is a pre-assembled, self-contained, control center for the AQUAMIST ULF System designed to meet the most stringent project requirements. The compact skid unit is pre-wired and pre-piped for ease of installation. The MCC is factory assembled, functionally tested, and ready to connect.

4. G-Press piping
   Tyco’s labor-saving galvanized or stainless steel pipe. Pipe systems are FM/VdS/LPCB approved.

5. Detection system
   The reliability and precision of a fire detection system play a key role in the early detection of fire. Tyco offers a full range of detection hardware.