

A collection of various colored wires and cables, including white, grey, yellow, and purple, arranged in a curved pattern against a light grey background. Some wires have connectors or are terminated.

SPEC 55 Low Fluoride Wire and Cable

Enhanced Capability with Outgassing Below 10 PPM

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TE Connectivity's (TE) SPEC 55 Low Fluoride (LF) offers a wire insulation system that mitigates the concern for corrosion of components due to outgassing, in confined areas. TE's fluoride off-gassing values typically run in the single digits, which is important to Space, Launch and Missile Platform customers. In addition, our insulation is robust, rugged and available in both single and dual wall for additional weight savings.

LOW OUTGASSING

- Less than 10 PPM

RUGGED

- 5x scrape abrasion within the spec
- Dynamic cut through

LIGHTWEIGHT

- Single thin wall primary

MIL SPEC QUALIFIED

- SAE AS22759/51-54

VERSATILE

- Available in primary wire and various cable configurations
- Custom configurations available upon request

APPLICATIONS/MARKETS

Markets

- Military and Commercial Satellites
- Missiles
- Spacecraft and Launch Vehicles
- High Altitude Aircraft

Applications

- Avionic Systems
- C4ISR Systems
- Guidance and Seeker Systems
- General Wire Harnessing Systems

MATERIAL

- Fluoropolymer

STANDARDS

- Mil Spec SAE-AS22759
- Single Wall SAE-AS22759/51 and /52
- Dual Wall SAE-AS22759/53 and /54

PERFORMANCE REQUIREMENTS

Test Requirement	Requirement	55LF
Fluoride Off Gassing	< 20 ppm	< 10 ppm
Scrape Abrasion	> 1000 Cycles at 23°C	> 5000 Cycles at 23°C
	> 500 Cycles at 70°C	> 1500 Cycles at 70°C
	> 50 Cycles at 150°C	> 100 Cycles at 150°C
Dynamic Cut Through	> 25 lbs at 23°C	> 30 lbs at 23°C
	> 15 lbs at 70°C	> 20 lbs at 70°C
	> 5 lbs at 150°C	> 6 lbs at 150°C
	> 2 lbs at 200°C	> 2 lbs at 200°C
Wet/Dry Arc Resistance	70/75 Pass	73-74/75 Pass



SPEC 55 LF Single Wall Wire



SPEC 55 LF Dual Wall Wire



SPEC 55 LF Cable

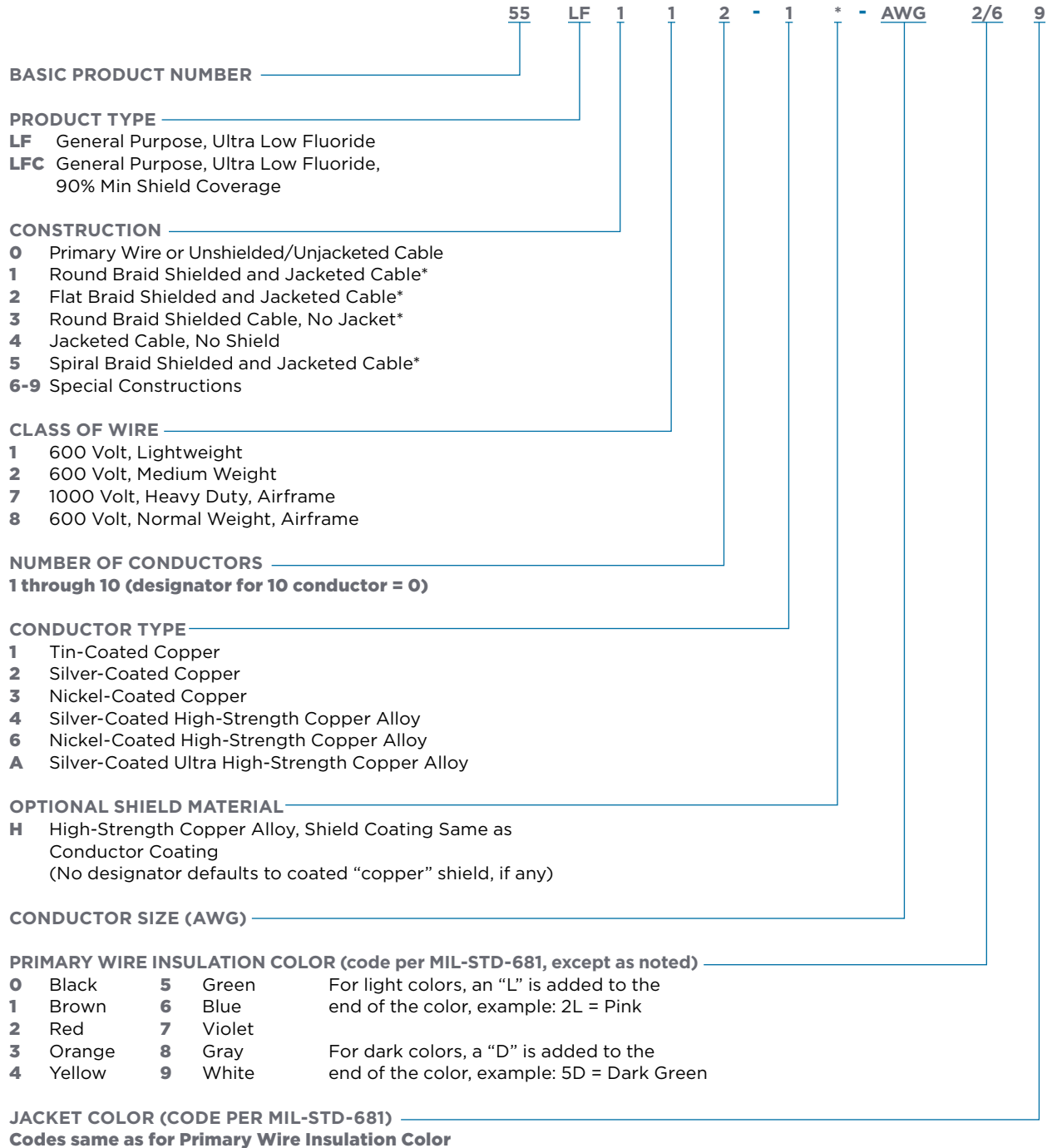
TE Components . . . TE Technology . . . TE Know-how . . .

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SEACON | Rochester | DEUTSCH

Empower Engineers to Solve Problems, Moving the World Forward.



SPEC 55 LF: General Purpose Part Numbering System



* Except for part numbers with Shield Material designation “H”, shield coating same as conductor coating.

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

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te.com/SPEC55LF

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Consult TE for the latest dimensions and design specifications.

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