AnHui Feichun
Special Cable Co., Ltd
Professional Manufacturer

M(StD)HOEU

Low Voltage Screened Flat Cable

Festoon Application System

Technical Specification
Complete Product Range



M(StD)HOEU - Premium Screened Festoon Cable System

PRODUCT OVERVIEW

M(StD)HOEU is a professional-grade low voltage screened flat cable specifically designed for hoisting equipment, transportation systems, and machine tools. It delivers superior performance in medium mechanical stress environments with severe single-plane bending operations.

KEY APPLICATIONS

- Hoisting gears
- Transportation systems
- Machine tools
- Festoon systems
- Oil/fat resistant areas
- Wet & outdoor use

QUALITY CERTIFICATIONS

UL CERTIFIED | DIN VDE | UL 4540

All standards met

ELECTRICAL & TECHNICAL PARAMETERS

Parameter	Specification
Brand/Type	M(StD)HOEU
Rated Voltage	0.6/1 kV (600/1000V)
Max. Operating Voltage AC	0.7/1.2 kV
Max. Operating Voltage DC	0.9/1.8 kV
AC Test Voltage	2.5 kV (5 min)
Primary Standard	UL Style 4540
Base Standard	Based on DIN VDE 0250-809
Max. Tensile Load	15 N/mm²
Travel Speed (Festoon)	Up to 180 m/min (consult for higher)
Torsional Stress	Not Allowed

THERMAL & MECHANICAL PROPERTIES

TEMPERATURE RATINGS

Conductor Max	90°C
Short Circuit	250°C
Fixed Install	-40°C to +80°C
Flex Operation	-30°C to +80°C

ENVIRONMENTAL RESISTANCE

Oil Resistance	Excellent
Fat Resistance	Excellent
Chemical Resist	Required
Moisture Resist	Superior

DESIGN FEATURES & MATERIALS

Component	Specification
Conductor	Bare copper; up to 25mm²: finest wire class 6 (IEC 60228); 35mm² and up: fine wire class 5. Paper tape or PETP-film wrapped
Insulation	Rubber, type pf compound 3GI3 (DIN VDE 0207-20)
Core Identification	Up to 5 cores: colored per DIN VDE 0293-308; From 6 cores: black with white numbers
Individual Screen	ALU/PETP foil (overlapped). Tinned copper wire spinning with >85% coverage. PETP-film wrapping
Core Arrangement	Parallel arrangement or pair twisting (2 cores + 2 fillers) with varying lay direction
Outer Sheath	Polychloroprene, type 5GM3 (DIN VDE 0207-21); Black color

COMPLETE PRODUCT RANGE - M(STD)HOEU CONFIGURATIONS

All configurations include: Screened design with ALU/PETP foil | Suitable for dry, damp, wet areas | Oil, fat & chemical resistant

3×25 mm² Series - Power Configuration

Cores × Section	Part Number	Ø min (mm)	Ø max (mm)	Weight (kg/km)	Tensile (N)	R@20°C (Ω/km)	Capacitance (µF/km)	Inductance (mH/km)	Current (A)	I²t (kA)
3x25+3x25/3	20007613	35.5	38.5	2220	1500	0.78	0.37	0.31	131	3.58
3x25+3x50/3	-	47.9	50.9	3360	1500	0.78	0.2	0.38	139	3.58

3×35 mm² Series - Medium Load Configuration

Cores × Section	Part Number	Ø min (mm)	Ø max (mm)	Weight (kg/km)	Tensile (N)	R@20°C (Ω/km)	Capacitance (µF/km)	Inductance (mH/km)	Current (A)	I²t (kA)
3x35+3x25/3	20007426	39.3	42.3	2780	2100	0.554	0.43	0.3	162	5.01
3x35+3x50/3	-	51.5	55.5	4050	2100	0.554	0.22	0.36	172	5.01

3×50 mm² Series - Heavy Load Configuration

Cores × Section	Part Number	Ø min (mm)	Ø max (mm)	Weight (kg/km)	Tensile (N)	R@20°C (Ω/km)	Capacitance (µF/km)	Inductance (mH/km)	Current (A)	I²t (kA)
3x50+3x25/3	20007893	42.8	45.8	3440	3000	0.386	0.49	0.28	202	7.15
3x50+3x50/3	-	55.2	59.2	4820	3000	0.386	0.25	0.34	215	7.15

3×70 mm² Series - Extra Heavy Load

Cores × Section	Part Number	Ø min (mm)	Ø max (mm)	Weight (kg/km)	Tensile (N)	R@20°C (Ω/km)	Capacitance (µF/km)	Inductance (mH/km)	Current (A)	I²t (kA)
3x70+3x35/3	20156763	46.6	49.6	4350	4200	0.272	0.55	0.27	250	10.01
3x70+3x50/3	20008713	58.8	62.8	5830	4200	0.272	0.28	0.33	265	10.01

3×95 & 3×120 mm² Series - Ultra Heavy Load

Cores × Section	Part Number	Ø min (mm)	Ø max (mm)	Weight (kg/km)	Tensile (N)	R@20°C (Ω/km)	Capacitance (µF/km)	Inductance (mH/km)	Current (A)	I²t (kA)
3x95+3x50/3	20004527	51.5	55.5	5630	5700	0.206	0.63	0.26	301	13.6
3x95+3x50/3 (alt)	-	64.4	68.4	7280	5700	0.206	0.31	0.31	319	13.6
3x120+3x70/3	20004525	55.2	59.2	6780	7200	0.161	0.7	0.25	352	17.16
3x120+3x70/3 (alt)	-	68	72	8520	7200	0.161	0.34	0.3	371	17.16

3×150 to 3×300 mm² Series - Maximum Capacity

Cores × Section	Part Number	Ø min (mm)	Ø max (mm)	Weight (kg/km)	Tensile (N)	R@20°C (Ω/km)	Current (A)	I²t (kA)
3x150+3x70/3	20004528	59.2	63.2	8000	9000	0.129	404	21.45
3x150+3x70/3 (alt)	-	73.4	77.4	10230	9000	0.129	428	21.45
3x185+3x95/3	20007425	64.4	68.4	9610	11100	0.106	462	26.46
3x185+3x95/3 (alt)	-	77.3	81.3	11610	11100	0.106	488	26.46
3x240+3x120/3	20014799	70.6	74.6	12220	14400	0.08	540	34.32

3x240+3x120/3 (alt)	-	84.7	89.7	14660	14400	0.08	574	34.32
3x300+3x150/3	20014797	77.5	81.5	14950	18000	0.064	620	42.9
3x300+3x150/3 (alt)	-	90.2	95.2	17280	18000	0.064	665	42.9

Notes: All current ratings based on ambient temperature 30°C. (1) = special configurations. All cables available with various core arrangements and screening options. Custom configurations available upon request.

KEY ADVANTAGES & FEATURES

- ✓ **Screened Design:** ALU/PETP foil with >85% tinned copper coverage for superior EMI protection
- ✓ **Oil & Fat Resistant:** Polychloroprene sheath resists oils, fats, and chemicals
- ✓ **Versatile Installation:** Suitable for dry, damp, wet areas and outdoor use
- ✓ **Flexible Construction:** Designed for severe single-plane bending operations
- ✓ **Wide Temperature Range:** Operating from -30°C to +80°C in flexible applications
- ✓ **High Current Capacity:** From 131A (3×25) to 665A (3×300+3×150)
- ✓ **International Certification:** UL Style 4540 and DIN VDE 0250-809 compliant
- ✓ **Extended Cable Life:** Superior bending radius performance minimizes fatigue

ENVIRONMENTAL & CHEMICAL RESISTANCE

M(StD)HOEU cables are engineered for industrial environments where **oil, fat, and chemical resistance** is required. The combination of rubber insulation and polychloroprene sheath provides exceptional protection.

- ✓ Resistant to mineral oils and animal fats
- ✓ Chemical compound resistant sheath material
- ✓ Suitable for outdoor installations
- ✓ No limitations on usage in wet environments
- ✓ Excellent aging resistance
- ✓ Superior moisture impermeability

CONTACT & TECHNICAL SUPPORT

Company: AnHui Feichun Special Cable Co., Ltd

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Website: feichuncables.com

Website: reelingcable.com

Service: 24/7 Technical Support Available

Product Availability:

All M(StD)HOEU configurations from 3×25 mm² to 3×300+3×150 mm² available for immediate delivery. Large volume orders receive special pricing and short delivery times. Custom cable designs and modifications available. Complete technical consultation for specific applications upon request.

Quality Assurance: All M(StD)HOEU cables manufactured under strict ISO 9001 certification procedures. Each cable undergoes rigorous testing including tensile strength, temperature cycling, and dielectric breakdown tests to ensure compliance with international standards.

Disclaimer: This technical specification contains general information about M(StD)HOEU screened festoon cables. For specific applications, environmental conditions, or detailed technical requirements, consult our technical team. Performance claims are based on standard test conditions. All technical data is subject to change without notice. Document prepared by AnHui Feichun Special Cable Co., Ltd. Information based on DIN VDE 0250-809 and UL Style 4540 standards.

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