

Anhui Feichun Special Cable Co., Ltd.

安徽飞纯特种电缆有限公司



H07ZZ-F LSZH Flexible Cable

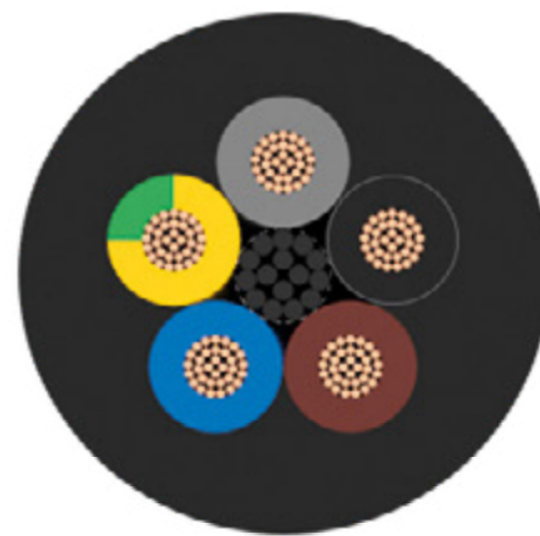
Low Smoke Zero Halogen Power Cable 450/750V

PRODUCT OVERVIEW

The H07ZZ-F represents Feichun Cable's premium Low Smoke Zero Halogen (LSZH) flexible power cable, engineered to deliver exceptional safety performance in critical applications. This cable combines the mechanical robustness comparable to H07RN-F rubber cables with advanced fire safety characteristics, making it the optimal choice for installations where human safety and equipment protection are paramount.

Distinguished Features

- Superior low smoke emission characteristics ensuring visibility during evacuation
- Complete absence of halogen compounds eliminating toxic gas generation
- Mechanical durability matching H07RN-F specification for demanding applications
- Enhanced flexibility for installation in confined spaces and complex routing
- Cross-linked insulation providing exceptional thermal stability up to 90°C
- Comprehensive oil resistance for industrial environments



APPLICATION SCOPE

These cables are specifically engineered for deployment in both indoor installations and temporary outdoor applications as flexible power supply cables. The H07ZZ-F is particularly suited for environments where fire safety regulations mandate low smoke generation and zero halogen content, including:

- Public buildings and transportation facilities
- Data centers and telecommunication installations
- Marine and offshore platforms
- Industrial machinery and equipment connections
- Emergency power systems and critical infrastructure

TECHNICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Nominal Voltage	450/750V
Max. Operating Voltage (AC)	0.475/0.825 kV
Max. Operating Voltage (DC)	0.620/1.240 kV
Test Voltage (AC)	2.5 kV

THERMAL PROPERTIES

Max. Conductor Temperature	90°C
Short Circuit Temperature	250°C
Fixed Installation Min. Temp.	-25°C
Flexible Operation Min. Temp.	-5°C

Construction Details

CONDUCTOR		INSULATION & SHEATH	
Material	Bare Copper	Insulation Material	LSZH EPR Cross-linked (EI8)
Class	5 (Flexible Stranded)	Sheath Material	LSZH Silicone rubber (SIR) Compound
Max. Tensile Load	15 N/mm²	Sheath Color	Black
		Core Identification	HD 308 / EN50525-1

COMPLIANCE & STANDARDS

Applicable Standards
- Primary Standard: EN 50525-3-21 - Zero Halogen: DIN EN 50363-5 - Smoke Density: DIN EN 61034-2 - Flame Propagation: DIN EN 60332-1-2 - Oil Resistance: DIN EN 60811-404 - Conductor Color Code: HD 308 (DIN VDE 0293-308) / EN50525-1 - Bending Radius: DIN VDE 0298 Part 3

DIMENSIONAL DATA - SINGLE CORE

Cross Section (mm²)	Part Number	Outer Diameter Min (mm)	Outer Diameter Max (mm)	Bending Radius Fixed (mm)	Bending Radius Moving (mm)	Tensile Force Max (N)	Current Rating (A)	Short Circuit Current (kA)
1 × 1.5	FC-H07ZZ-1.5S	5.9	7.2	29	43	23	25	0.25
1 × 2.5	FC-H07ZZ-2.5S	6.5	8.0	32	48	38	33	0.41
1 × 4	FC-H07ZZ-4S	7.4	9.1	36	55	60	43	0.65
1 × 6	FC-H07ZZ-6S	8.1	9.9	40	60	90	55	0.97
1 × 10	FC-H07ZZ-10S	9.4	12.0	48	72	150	75	1.61
1 × 16	FC-H07ZZ-16S	10.7	13.5	54	81	240	100	2.58
1 × 25	FC-H07ZZ-25S	12.3	15.8	64	95	375	131	4.03
1 × 35	FC-H07ZZ-35S	13.8	18.0	72	108	525	161	5.65
1 × 50	FC-H07ZZ-50S	16.0	20.8	83	125	750	202	8.07
1 × 70	FC-H07ZZ-70S	18.3	23.5	94	141	1050	250	11.29
1 × 95	FC-H07ZZ-95S	20.8	26.2	105	157	1425	298	15.33
1 × 120	FC-H07ZZ-120S	23.1	28.8	115	173	1800	350	19.36
1 × 150	FC-H07ZZ-150S	25.2	31.6	127	190	2250	398	24.20
1 × 185	FC-H07ZZ-185S	27.8	34.6	139	208	2775	456	29.85
1 × 240	FC-H07ZZ-240S	30.9	38.6	154	232	3600	538	38.72

DIMENSIONAL DATA - MULTI-CORE WITH PROTECTIVE CONDUCTOR

Cross Section (mm²)	Part Number	Outer Diameter Min (mm)	Outer Diameter Max (mm)	Bending Radius Fixed (mm)	Bending Radius Moving (mm)	Tensile Force Max (N)	Current Rating (A)	Short Circuit Current (kA)
3 G 1.5	FC-H07ZZ-3G1.5	9.3	12.0	48	72	68	25	0.25
3 G 2.5	FC-H07ZZ-3G2.5	11.0	14.1	56	85	113	33	0.41
3 G 4	FC-H07ZZ-3G4	12.8	16.3	65	98	180	43	0.65
3 G 6	FC-H07ZZ-3G6	14.2	18.1	72	109	270	55	0.97
3 G 10	FC-H07ZZ-3G10	19.3	24.4	98	146	450	75	1.61
3 G 16	FC-H07ZZ-3G16	22.0	27.8	111	167	720	100	2.58
3 G 25	FC-H07ZZ-3G25	26.3	33.2	133	199	1125	131	4.03
3 G 35	FC-H07ZZ-3G35	29.5	37.3	149	224	1575	161	5.65
3 G 50	FC-H07ZZ-3G50	34.4	43.2	173	259	2250	202	8.07
4 G 1.5	FC-H07ZZ-4G1.5	10.3	13.2	53	79	90	25	1.61
4 G 2.5	FC-H07ZZ-4G2.5	12.2	15.6	62	94	150	33	2.58
4 G 4	FC-H07ZZ-4G4	14.1	18.0	72	108	240	43	4.03
4 G 6	FC-H07ZZ-4G6	15.8	20.1	80	121	360	55	5.65
4 G 10	FC-H07ZZ-4G10	21.1	26.7	107	160	600	75	8.07
4 G 16	FC-H07ZZ-4G16	24.0	30.3	121	182	960	100	11.29
4 G 25	FC-H07ZZ-4G25	29.1	36.8	147	221	1500	131	15.33
5 G 1.5	FC-H07ZZ-5G1.5	11.3	14.5	58	87	113	19	4.03
5 G 2.5	FC-H07ZZ-5G2.5	13.4	17.1	68	103	188	27	5.65
5 G 4	FC-H07ZZ-5G4	15.7	20.0	80	120	300	35	8.07
5 G 6	FC-H07ZZ-5G6	17.6	22.3	89	134	450	45	11.29
5 G 10	FC-H07ZZ-5G10	23.1	29.3	117	176	750	62	15.33
5 G 16	FC-H07ZZ-5G16	26.6	33.5	134	201	1200	84	0.25

DIMENSIONAL DATA - MULTI-CORE CABLES

Cores × Section (mm²)	Part Number	Outer Diameter Min (mm)	Outer Diameter Max (mm)	Bending Radius Fixed (mm)	Bending Radius Moving (mm)	Tensile Force Max (N)	Current Rating (A)
7 × 1.5	FC-H07ZZ-7X1.5	14.8	18.8	75	113	158	19
12 × 1.5	FC-H07ZZ-12X1.5	17.7	22.5	90	135	270	19
18 × 1.5	FC-H07ZZ-18X1.5	20.9	26.5	106	159	405	19
19 × 1.5	FC-H07ZZ-19X1.5	20.9	26.5	106	159	428	19

Cores × Section (mm ²)	Part Number	Outer Diameter Min (mm)	Outer Diameter Max (mm)	Bending Radius Fixed (mm)	Bending Radius Moving (mm)	Tensile Force Max (N)	Current Rating (A)
24 × 1.5	FC-H07ZZ-24X1.5	24.5	30.9	124	185	540	19
36 × 1.5	FC-H07ZZ-36X1.5	28.0	35.4	142	212	810	19
7 × 2.5	FC-H07ZZ-7X2.5	17.2	21.9	88	131	263	27
12 × 2.5	FC-H07ZZ-12X2.5	20.8	26.4	106	158	450	27
18 × 2.5	FC-H07ZZ-18X2.5	24.6	31.1	124	187	675	27
24 × 2.5	FC-H07ZZ-24X2.5	29.0	36.6	147	220	900	27

INSTALLATION GUIDELINES

Important: Installation shall be performed in accordance with applicable national wiring regulations and local electrical codes. Minimum bending radii must be strictly observed to prevent conductor damage and maintain cable integrity.

Recommended Installation Practices

- Maintain specified minimum bending radius during installation and service
- Avoid installation below -5°C for flexible applications
- Ensure proper cable support at regular intervals
- Protect cables from mechanical damage in high-traffic areas
- Verify conductor temperature does not exceed 90°C during operation

ORDERING INFORMATION

When ordering H07ZZ-F cables, please specify:

- Cable designation (H07ZZ-F)
- Number of cores and cross-sectional area
- Required length in meters
- Special packaging requirements if applicable
- Certification documentation requirements

Example Order Reference:
H07ZZ-F 3G2.5 - 500m
(3-core cable with 2.5mm² cross-section including protective conductor, 500 meters)



FEICHUN SPECIAL CABLES

Website Address www.reelingcable.com www.feichuncables.com
Whatsapp Account + 86 13855123218
Email Address Zihao.yang@feichuncables.com & Ziyu.huang@feichuncables.com