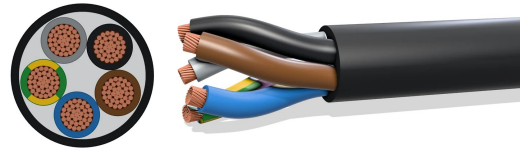


Application

H07ZZ-F is a harmonised flexible cable to EN 50525-3-21 with halogen-free cross-linked (thermosetting) insulation and sheath, rated 450/750 V. It is the low-smoke, halogen-free counterpart of H07RN-F and is intended for the connection of mobile and portable equipment, temporary installations, stage and event technology, UPS and mobile power units and machines in locations where fire safety, low smoke density and the absence of corrosive gases are required, such as public buildings, tunnels and transport infrastructure. In the event of fire the cable does not propagate flame and emits only low quantities of smoke and no halogen acids. The cable may be used in dry, damp and wet locations and outdoors; it is not intended for continuous reeling or forced-guided use.



CONSTRUCTION

Conductor	Fine-wire stranded plain (bare) annealed copper, class 5 to IEC/EN 60228.
Insulation	Halogen-free cross-linked (thermosetting) compound EI 8 to EN 50363-5.
Sheath	Halogen-free cross-linked (thermosetting) compound EM 8 to EN 50363-6, round; black.
Core colours	To HD 308 S2: 1 core black; 2 cores brown, blue; 3 cores (G) green/yellow, brown, blue; 3 cores (X) brown, black, grey; 4 cores (G) green/yellow, brown, black, grey; 4 cores (X) blue, brown, black, grey; 5 cores (G) green/yellow, blue, brown, black, grey; 5 cores (X) blue, brown, black, grey, black; 6 cores and more black with white numbers plus one green/yellow core.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	450/750 V.
Test voltage	2.5 kV.
Standard	EN 50525-3-21.
Flame-retardant	IEC/EN 60332-1-2.
Halogen-free	IEC/EN 60754-1/-2; low smoke density to IEC/EN 61034-2.
Conductor standard	IEC/EN 60228 class 5.
Max. conductor temperature	+90 °C.
Permitted outer cable temperature, fixed	-20 °C to +90 °C.
Permitted outer cable temperature, moved	-5 °C to +50 °C.
Min. bending radius, fixed	4 × outer diameter.
Min. bending radius, moved	8 × outer diameter.
Reaction to fire (CPR)	Outside the scope of EN 50575 (flexible connection cable, not for permanent installation in construction works).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 1	19.5	7.7	85
3 × 1	19.5	8.4	105
4 × 1	19.5	9.4	130
5 × 1	19.5	10.2	160
2 × 1.5	13.3	8.6	110
3 × 1.5	13.3	9.5	140
4 × 1.5	13.3	10.7	170
5 × 1.5	13.3	11.5	205
2 × 2.5	7.98	10.2	160
3 × 2.5	7.98	11.4	200
4 × 2.5	7.98	12.3	245
5 × 2.5	7.98	13.6	295
2 × 4	4.95	12	220
3 × 4	4.95	12.8	275
4 × 4	4.95	14.4	345
5 × 4	4.95	15.7	425
1 × 6	3.3	8.2	115
2 × 6	3.3	13.5	290
3 × 6	3.3	14.5	370
4 × 6	3.3	16	460
5 × 6	3.3	17.9	565
1 × 10	1.91	10	185
2 × 10	1.91	17.5	520
3 × 10	1.91	19.8	650
4 × 10	1.91	21.4	815
5 × 10	1.91	23.8	995
1 × 16	1.21	11.2	255
2 × 16	1.21	20	710
3 × 16	1.21	21.8	900
4 × 16	1.21	24.3	1130
5 × 16	1.21	27	1380
1 × 25	0.78	13.3	365
2 × 25	0.78	24.5	1055
3 × 25	0.78	26	1310
4 × 25	0.78	29.5	1685
5 × 25	0.78	32.5	2045
1 × 35	0.554	14.8	480
3 × 35	0.554	29.4	1730
4 × 35	0.554	32.7	2190
1 × 50	0.386	17.2	640
3 × 50	0.386	33.4	2335
4 × 50	0.386	38	2995
1 × 70	0.272	19.2	895
3 × 70	0.272	37.8	3100
4 × 70	0.272	43.2	4010

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
1 × 95	0.206	21.5	1105
4 × 95	0.206	49.1	5250
1 × 120	0.161	23.8	1425
4 × 120	0.161	52	6330
1 × 150	0.129	26.1	1695
4 × 150	0.129	57.5	7835
1 × 185	0.106	28.2	2030
4 × 185	0.106	63.2	9470
1 × 240	0.0801	31.4	2615
4 × 240	0.0801	72.1	12360
1 × 300	0.0641	34.6	3265
1 × 400	0.0486	38.8	4240
1 × 500	0.0384	41.9	5330
1 × 630	0.0287	48.8	7055

Dimensions and weights are nominal manufacturer values of the leading reference source; conductor resistance is the maximum per IEC/EN 60228 class 5; all values are indicative and non-binding.