

H07Z-R Installation Wire-LSZH Cable

1. Product Overview

H07Z-R is a stranded, rigid, halogen-free, single-core installation wire designed for power distribution in environments where fire safety is a critical requirement. Featuring a Class 2 stranded copper conductor, this cable offers an optimal balance between structural stability and installation convenience for long-distance fixed conduit or cable duct applications.

2. Technical Specifications

Feature	Specification
Cable Type	H07Z-R (Single-Core Wire)
Standard	DIN VDE 0285-525-3-1
Voltage Rating	450 / 750V
Conductor	Stranded Annealed Copper (Class 2)
Insulation	LSZH (Low Smoke Zero Halogen) Compound
Fire Performance	IEC 60332-1-2 (Flame Retardant)
Halogen-Free	IEC 60754-1/2
Smoke Density	IEC 61034-2
Max. Operating Temp.	+90°C
Installation Temp.	-5°C to +70°C
Bending Radius	Fixed installation: 5 x Outer Diameter

3. Recommended Applications

- Fixed installation in conduits or trunking systems
- Power distribution for large commercial and industrial buildings
- Public infrastructure (stations, hospitals, schools) where LSZH is mandatory
- Internal wiring for high-power distribution panels
- Underground installations (when installed within appropriate conduits)

4. Professional Support

Heron Cable provides factory-direct pricing and technical consulting for large-scale export projects.

5.Specification Details:

No. of Cores x Nominal Cross- Sectional Area	Nominal Thickness of Insulation	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight
# x mm ²	mm	mm	kg/km	kg/km
1 x 1.5	0.7	3	14.4	21
1 x 2.5	0.8	3.6	24	33
1 x 4	0.8	4.1	39	49
1 x 6	0.8	4.7	58	71
1 x 10	1	6	96	114
1 x 16	1	6.8	154	172
1 x 25	1.2	8.4	240	265
1 x 35	1.2	9.3	336	360
1 x 50	1.4	10.9	480	487
1 x 70	1,4	12.6	672	683
1 x 95	1,6	14.7	912	946
1 x 120	1,6	16	1152	1174

1 x 150	1,8	17.9	1440	1448
1 x 185	2,0	20	1776	1820
1 x 240	2,2	22.7	2304	2371