H07Z1-R (FQ)

H07Z1-R is a halogen-free, flame-retardant, and low-smoke (HFFR) insulated conductor designed for fixed installations. It is primarily used in conduit or duct systems but is also suitable as a connection wire in distribution boards and similar applications.

Thanks to its HFFR insulation, the cable enhances safety by reducing smoke emissions and eliminating corrosive gases in the event of fire, protecting both people and equipment. H07Z1-R is a dependable and durable solution for modern electrical installations where fire safety is crucial.

STANDARDS

Construction
EN 50525-3-31

Conductor
IEC 60228 Class 2

Flame retardant
EN 50575:2014+A1:2016
IEC 60332-1-2

Halogen free
IEC 60754-1
IEC 60754-2

Smoke density
IEC 61034-1
IEC 61034-2

APPROVAL

CONSTRUCTION

Bending radius - Final mount fixed
4 xOD

Color
According to EN 50525-1

Conductor
Class 2 Bare copper

Insulation
HFFR

Labeling example
H07Z1-R TYPE 1 AMO CE

PROPERTIES

Conductor temperature
70 °C

CPR class
1,5-10mm^2: Dca-s2, d1, a1 10-95mm^2: Dca-s1, d1, a1

Max temperature
70 °C

Min. temperature
-30 °C

AC Voltage rating U_0/U
450/750V

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Name	Cross section [mm²]	Outer diameter [mm]	Installation Current in open air, ambient temperature 30°C [A]	Total weight [kg/km]
H07Z1-R 1,5	1.5	3	24	19
H07Z1-R 2,5	2.5	3.6	32	32
H07Z1-R 4	4	4.1	42	46
H07Z1-R 6	6	4.7	54	68
H07Z1-R 10	10	6.1	73	109
H07Z1-R 16	16	7	98	163
H07Z1-R 25	25	8.6	129	259
H07Z1-R 35	35	9.8	158	344
H07Z1-R 50	50	11.5	198	483
H07Z1-R 70	70	13.5	245	674
H07Z1-R 95	95	15.8	292	924

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