

H07Z-U / H07Z-R / H07Z-K

Insulated wire

Standard: ÖVE/ÖNORM E 8240-9

Usage:

For fixed installation in conduit on or under plaster. Suitable for protected fixed installation in and on lighting installations or control equipment for ac voltages up to 1000 V or dc voltages up to 750 V towards earth. Since they are free from halogens and exhibit enhanced fire performance, these cables are used in those applications where in the event of fire, the negative effects on concentrations of people and valuable material goods must be minimised.



Construction:

- 1 Copper conductor, solid wire (-U), stranded wire (-R) or fine wire (-K)
- 2 Core insulation (halogen-free polymer compound, cross-linked)



Rated voltage: 450/750 V



Test voltage: 2500 Veff



Temperature range:

laying temperature: min. -5 °C
 operating temperature: -20 °C to +80 °C
 conductor temperature: max. +90 °C
 short-circuit temperature: max. +250 °C/5 s



Bending radius (min.): 4 x Ø of wire



Core identification:

black (sw), blue (bl), brown (br), green/yellow (gnge), grey (gr)



Fire properties:

flame retardant (EN 50265-2-1, IEC 60332-1)
 halogen-free, no corrosive combustion gases (EN 50267, IEC 60754-2)
 minimum smoke emission (EN 50268, IEC 61034)



Test certificate: ÖVE Austria

Nominal cross section (mm²)	Colour of core	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
H07Z-U						
1.5	sw, br, bl	12.1	3.0	15	20	100 R
2.5	sw, br, bl	7.41	3.5	25	30	100 R
4	sw, br, bl	4.61	4.0	40	45	100 R
1.5	gnge	12.1	3.0	15	20	100 R
2.5	gnge	7.41	3.5	25	30	100 R
4	gnge	4.61	4.0	40	45	100 R
H07Z-R						
6	sw, br, bl	3.0800	5.0	60	65	100 R
10	sw, bl, br	1.8300	6.5	100	110	100 R
16	sw, bl, br	1.1500	7.5	160	175	100 R
25	sw	0.7270	9.0	250	275	500 T, 1000 T
35	sw	0.5240	10.0	350	365	500 T, 1000 T
50	sw	0.3870	12.0	500	490	500 T, 1000 T
70	sw	0.2680	14.0	700	700	500 T, 1000 T
95	sw	0.1930	16.5	950	920	500 T, 1000 T
120	sw	0.1530	18.5	1,200	1,150	500 T, 1000 T
150	sw	0.1240	20.5	1,500	1,400	500 T, 1000 T
185	sw	0.0991	22.5	1,850	1,760	500 T, 1000 T

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Nominal cross section (mm ²)	Colour of core	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/ packing (m)
H07Z-R						
240	sw	0.0754	25.5	2,400	2,300	500 T, 1000 T
6	gnge, special colours	3.0800	5.0	60	65	100 R
10	gnge, special colours	1.8300	6.5	100	110	100 R
16	gnge, special colours	1.1500	7.5	160	175	100 R
25	gnge, special colours	0.7270	9.0	250	275	500 T, 1000 T
35	gnge, special colours	0.5240	10.0	350	365	500 T, 1000 T
50	gnge, special colours	0.3870	12.0	500	490	500 T, 1000 T
70	gnge, special colours	0.2680	14.0	700	700	500 T, 1000 T
95	gnge, special colours	0.1930	16.5	950	920	500 T, 1000 T
120	gnge, special colours	0.1530	18.5	1,200	1,150	500 T, 1000 T
150	gnge, special colours	0.1240	20.5	1,500	1,400	500 T, 1000 T
185	gnge, special colours	0.0991	22.5	1,850	1,760	500 T, 1000 T
240	gnge, special colours	0.0754	25.5	2,400	2,300	500 T, 1000 T
H07Z-K						
1.5	sw, br, bl	13.300	2.9	15	20	100 R
2.5	sw, br, bl	7.980	3.6	25	31	100 R
4	sw, br, bl	4.950	4.4	40	50	100 R
6	sw, br, bl	3.300	4.7	60	69	100 R
10	sw, br, bl	1.910	6.0	100	110	100 R
16	sw, br, bl	1.210	7.5	160	170	100 R
25	sw, br, bl	0.780	9.5	250	255	500 T, 1000 T
35	sw, br, bl	0.554	11.0	350	345	500 T, 1000 T
50	sw, br, bl	0.386	13.0	500	490	500 T, 1000 T
70	sw, br, bl	0.272	15.0	700	700	500 T, 1000 T
95	sw	0.206	17.0	950	930	500 T, 1000 T
120	sw	0.161	18.5	1,200	1,150	500 T, 1000 T
150	sw	0.129	21.0	1,500	1,400	500 T, 1000 T
185	sw	0.106	23.0	1,850	1,840	500 T, 1000 T
240	sw	0.080	27.0	2,400	2,400	500 T, 1000 T
1.5	gnge, gr	13.300	2.9	15	20	100 R
2.5	gnge, gr	7.980	3.6	25	31	100 R
4	gnge, gr	4.950	4.4	40	50	100 R
6	gnge, gr	3.300	4.7	60	69	100 R
10	gnge, gr	1.910	6.0	100	110	100 R
16	gnge, gr	1.210	7.5	160	170	100 R
25	gnge, gr	0.780	9.5	250	255	500 T, 1000 T
35	gnge, gr	0.554	11.0	350	345	500 T, 1000 T
50	gnge, gr	0.386	13.0	500	490	500 T, 1000 T
70	gnge, gr	0.272	15.0	700	700	500 T, 1000 T

Subject to technical changes.