LSOH Wiring Cables
Low Voltage (450/750 V)

6491B Afumex

LSOH Conduit Wire (HO7Z-R)

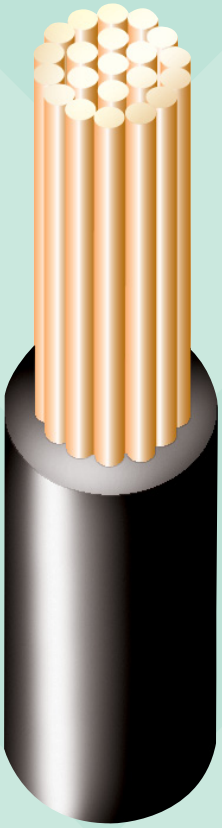
Cable Approvals

Cable approved to BS EN 50525-3-41

Key Applications

> Installation in surface mounted or embedded conduits, or similar closed systems and for fixed protected installation in or on lighting fittings and inside appliances, switchgear and control gear particularly for situations in which low emissions of smoke and acid gas is requred in case of burning

> Green/Yellow for use as earth can be installed without mechanical protection.



Conductor

> Plain annealed copper stranded circular conductor complying with BS EN 60228 Class 2

Insulation

> 90°C LSOH crosslinked insulation complying with BS EN 50363-5 Type EI 5

Core Identification

- Red
- Black
- Blue
- Brown
- Grey
- Green/Yellow

Other core colours are available on request


Temperature Range -25 to +90°C

Bending Radius Fixed r=6D


Mechanical Impact Medium


Fire Performance BS EN 60332-1-2


Flexibilty Rigid


Halogen free BS EN 50267-2-2


Low smoke emissions BS EN 61034-2

Ref: 6491B/09/13*

Prysmian Cables & Systems Limited, Sales Office, Chickenhall Lane, Eastleigh, Hants, SO50 6YU, UK
Commercial Enquiries, Tel +44 (0) 8457 678 345, Fax: +44 (0) 23 8029 5465
www.prysmian.co.uk

PRYSMIAN CABLES & SYSTEMS

LSOH Conduit Wire (HO7Z-R)

Cable Details

Nominal cross sectional area mm²	Conceptual construction no/mm	Approx. overall diameter mm	Approx. cable weight kg	Maximum conductor resistance at 20°C ohms/km	Short circuit rating 90-160°C (1 sec) kA	Short circuit rating 90-250°C (1 sec) kA	Current rating DC or single phase AC enclosed in conduit or trunking Amps	Current rating Three phase AC enclosed in conduit or trunking Amps	Voltage drop DC mV/A/m	Voltage drop DC or single phase AC mV/A/m	Voltage drop three phase AC mV/A/m
1.5	7/0.53	3	21	12.1	0.15	0.22	23	20	31	31	27
2.5	7/0.67	3.6	32	7.41	0.25	0.36	31	28	19	19	16
4	7/0.85	4.2	47	4.61	0.4	0.6	42	37	12	12	10
6	7/1.04	4.7	66	3.08	0.6	0.9	54	48	7.9	7.9	6.8
10	7/1.35	6.1	114	1.83	1	1.4	75	66	4.7	4.7	4
16	7/1.70	7.2	171	1.15	1.6	2.3	100	88	2.9	2.9	2.5
25	7/2.14	8.4	250	0.727	2.5	3.6	133	117	1.85	1.9	1.65
35	comp.*	9.5	350	0.524	3.5	5	164	144	1.35	1.35	1.15
50	comp.*	11.3	470	0.387	5	7.2	198	175	0.99	1.05	0.9
70	comp.*	12.6	670	0.268	7	10	253	222	0.68	0.75	0.65
95	comp.*	14.7	930	0.193	9.5	13.6	306	269	0.49	0.58	0.5
120	comp.*	16.2	1160	0.153	12	17.2	354	312	0.39	0.48	0.42
150	comp.*	18.1	1430	0.124	15	21.5	393	342	0.32	0.43	0.37
185	comp.*	20.2	1790	0.0991	18.5	26.5	449	384	0.25	0.37	0.32
240	comp.*	22.9	2350	0.0754	24	34.3	528	450	0.19	0.33	0.29
300	comp.*	27	3030	0.0601	30	42.9	603	514	0.155	0.31	0.27
400	comp.*	32	4010	0.047	40	57.2	683	584	0.12	0.29	0.25
500	comp.*	35.5	5020	0.0366	50	71.6	783	666	0.093	0.28	0.24
630	comp.*	39.5	6440	0.0283	63	90.2	900	764	0.072	0.27	0.23

* Compressed stranded conducts

Temperature Rating Factors

Ambient Temperature °C	25	30	35	40	45	50	55	60
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71

Ambient Temperature °C	65	70	75	80
Rating Factor	0.65	0.58	0.5	0.41

Correction factors for Groupings

Number of circuits	2	3	4	5	6	7	8	9
Rating Factor	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50

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