

2xH / A2xH | 3 Core (Cu or Al/XLPE/LSZH/LSZH)

APPLICATION

These cables offer the advantages of a 2xH(600/1000V) rated, low smoke zero halogen (LSZH) cable with circuit integrity. They are intended for use in installations where vital circuits are required to continue operation in the event of the outbreak of fire. It is particularly suited for use in public buildings and constructions (such as hospitals, theatres, shopping developments, tunnels, mass transit railways, oil & petrochemical plants, power stations and computer installations) where the danger to life, equipment and structures may be greatly increased in the event of a power failure due to fire.

CONSTRUCTION

Conductor: Solid/Stranded Circular/ Compacted/ Sector Shaped, Plain annealed Copper or Aluminium, Class 1 or Class 2 to BDS IEC 60228

Insulation : Cross linked Polyethylene, XLPE to BDS IEC 60502-1

Inner Covering : Low Smoke Zero Halogen (LSZH) , ST8 to BDS IEC 60502-1

Sheath : Low Smoke Zero Halogen (LSZH) , ST8 to BDS IEC 60502-1

PROPERTIES

Low Smoke Zero Halogen

Acid Gas Emission: IEC 60754-1

Smoke Emission: IEC 61034

Flame Propagation: IEC 60332-3-24

VOLTAGE GRADE

Uo/U (Um) : 0.6/1.0 (1.2) kV

Test Voltage: 3.5 kV

OPERATING TEMP.

- 20°C to +90°C

Max Short Circuit 250°C

MIN. BENDING RADIUS

Approx. 12x Cable Diameter

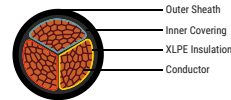
STANDARD

BDS IEC 60502-1

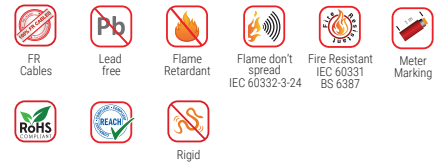
COLOR

Insulated Core: ● Red
● Yellow
● Blue
● Black
● (Red or other colors available on request)

*REACH | RoHS | CE



CHARACTERISTICS



INSTALLATION CONDITION



CABLE DESIGN PARAMETER

PHYSICAL DATA					ELECTRICAL DATA							
Nominal cross sectional area of conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable		Max. DC resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C		Current Carrying Capacity in Air at 35 °C	
					Cu	Al	Cu	Al	Cu	Al	Cu	Al
Core x mm ²	no./mm	mm	mm	mm	kg/km	kg/km	Ω/km	Ω/km	amp	amp	amp	amp
3 x 1.5 re	1/1.38	0.7	1.8	11.8	182	-	12.1	18.1	30	-	23	-
3 x 1.5 rm	7/0.52	0.7	1.8	12.2	190	-	12.1	18.1	30	-	23	-
3 x 2.5 re	1/1.78	0.7	1.8	12.3	235	-	7.41	12.1	38	-	32	-
3 x 2.5 rm	7/0.67	0.7	1.8	12.7	246	-	7.41	12.1	38	-	32	-
3 x 4.0 rm	7/0.85	0.7	1.8	14.5	321	213	4.61	7.41	48	34	41	31
3 x 6.0 rm	7/1.04	0.7	1.8	15.6	421	252	3.08	4.61	64	40	56	40
3 x 10 rm	7/1.35	0.7	1.8	17.5	568	320	1.83	3.08	83	55	75	53
3 x 16 rm	7/1.70	0.7	1.8	19.6	805	410	1.15	1.91	110	73	98	70
3 x 25 rm	7/2.14	0.9	1.8	23.0	1100	500	0.727	1.20	130	94	120	96
3 x 35 sm	19 wire	0.9	1.8	22.3	1237	576	0.524	0.868	155	114	150	117
3 x 50 sm	19 wire	1.0	1.8	25.1	1694	778	0.387	0.641	190	133	190	142
3 x 70 sm	19 wire	1.1	1.9	28.4	2315	983	0.268	0.443	225	164	230	179
3 x 95 sm	19 wire	1.1	2.0	32.2	3161	1253	0.193	0.320	260	196	270	221
3 x 120 sm	37 wire	1.2	2.1	35.3	3915	1570	0.153	0.253	295	223	305	257
3 x 150 sm	37 wire	1.4	2.3	38.7	4866	2000	0.124	0.206	330	249	350	292
3 x 185 sm	37 wire	1.6	2.4	42.5	5978	2470	0.0991	0.164	385	282	410	337
3 x 240 sm	61 wire	1.7	2.6	47.6	7534	3165	0.0754	0.125	425	327	470	400
3 x 300 sm	61 wire	1.8	2.8	53.1	9541	3840	0.0601	0.100	478	368	564	455