

## ASH RUBBER FLEXIBLE RUBBER INSULATED AND SHEATHED 450/750 V GENERAL PURPOSE CABLES

### APPLICATION:

-For use on Work sites, mobile power supplies, ports and harbors, water treatment plants, sewage and drains, hot and cold areas, and harsh industrial environments. For use in portable power supplies, site equipment, industrial machinery, and audio-visual equipment.  
-The cables are intended for a variety of applications where appliances or Industrial machines, require a flexible connection to the power supply. H07RN-F cable may be rated 0.6/1KV where the installation has been built in protection.

### CONSTRUCTION DETAILS

<b>Reference Standard</b>	BS EN 50525-2-21, BS EN 50363-1, BS EN 60228
<b>Rated voltage</b>	450 / 750V
<b>Conductor Material</b>	Plain annealed Copper conductor, Flexible Class (5) of BS EN 60228.
<b>Conductor Insulation</b>	Ethylene propylene rubber insulation type EI7 to BS EN 50363-1.
<b>Insulation color</b>	Table A.
<b>Assembly and Fillers</b>	Insulated conductors are laid up to form a core and non-hygroscopic filler (if required) or a non-woven separator applied between insulated conductor & jacket (if required).
<b>Outer Sheathing</b>	Chlorinated Polyethylene rubber (CPE) EM7 in according to EN 50363-2-1. (Black color or upon request)
<b>Marking (Printing)</b>	<b>Table 1</b>
<b>Cable Cross sectional drawing</b>	Figure 1

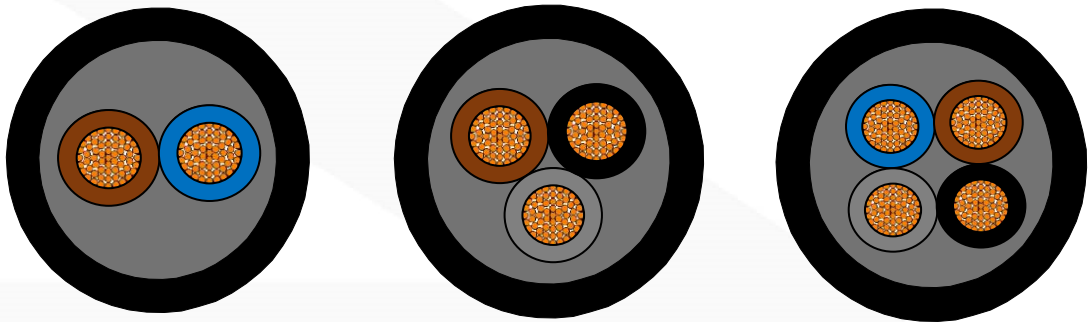


Table A		
No. of cores	Core Identification with Ground(Earth cores)	Core Identification without Ground(Earth cores)
1 core	Black or Natural	Black or Natural
2 Cores	Brown, Blue	Brown, Blue
3 Cores	Blue, Brown, Green/Yellow stripe	Brown, Black, Grey
4 Cores	Brown, Black, Grey, Green/Yellow stripe	Blue, Brown, Black, Grey
5 Cores	Blue, Brown, Black, Grey, Green/Yellow stripe	Blue, Brown, Black, Grey, Black
6 Cores above	Black with white numbering + 1 Green/Yellow stripe	Black with white numbering

### ELECTRICAL PROPERTY

<b>Conductor DC Resistance @ 20°C</b>	As per Table 1 Class 5 of BS EN 60228	<b>(Ω/km)</b>
<b>Voltage Test (Core to Core)</b>	2.5 kV	
<b>Voltage Rating</b>	450/750 V	

### FLAME BEHAVIOUR, MECHANICAL & ENVIRONMENTAL PROPERTY

<b>Operating Temperature</b>	-40°C to 90°C (Fixed and protected installation)
<b>Bending Radius</b>	8 X Cable Outer Diameter
<b>Flame Retardance</b>	Pass Flammability Test Requirement of IEC:60332-1-2

<b>PACKING</b>	100 Yards (coiled) or 500/1000 mts in cable Wooden Drum or any other customer requirement Each reels/drum shall be marked with ASH cables standard practice.
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## ASH RUBBER FLEXIBLE RUBBER INSULATED AND SHEATHED 450/750 V GENERAL PURPOSE CABLES

**Table 1  
DIMENSIONAL DATA SHEET**

**SINGLE CORE**

S/N	ASH ITEM CODE	No. of cores X size (MM2)	NOM. INSULATION THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Maximum Conductor DC Resistance at 20°C	Current carrying at 30°C Air (AMPS)
1	P75R-01C00150-UXXXR	1CX1.50	0.80	1.40	6±0.50	55	≤ 13.30	27
2	P75R-01C00250-UXXXR	1CX2.50	0.90	1.40	6.70±0.50	71	≤ 7.98	35
3	P75R-01C00400-UXXXR	1CX4.0	1.00	1.50	7.7±0.5	100	≤ 4.95	47
4	P75R-01C00600-UXXXR	1CX6.0	1.00	1.60	8.5±0.5	126	≤ 3.30	60
5	P75R-01C01000-UXXXR	1CX10	1.20	1.80	10.3±0.5	201	≤ 1.91	83
6	P75R-01C01600-UXXXR	1CX16	1.20	1.90	11.5±0.6	275	≤ 1.21	111
7	P75R-01C02500-UXXXR	1CX25	1.40	2.00	13.6±0.7	385	≤ 0.780	147
8	P75R-01C03500-UXXXR	1CX35	1.40	2.20	15.2±0.8	510	≤ 0.554	181
9	P75R-01C05000-UXXXR	1CX50	1.60	2.40	17.6±0.9	695	≤ 0.386	226
10	P75R-01C07000-UXXXR	1CX70	1.60	2.60	19.7±1	928	≤ 0.272	279
11	P75R-01C09500-UXXXR	1CX95	1.80	2.80	22.30±1.1	1200	≤ 0.206	338
12	P75R-01C12000-UXXXR	1CX120	1.80	3.00	24.5±1.2	1495	≤ 0.161	391
13	P75R-01C15000-UXXXR	1CX150	2.00	3.20	26.8±1.3	1830	≤ 0.129	449
14	P75R-01C18500-UXXXR	1CX185	2.20	3.40	29.30±1.5	2185	≤ 0.106	513
15	P75R-01C24000-UXXXR	1CX240	2.40	3.50	32.5±1.6	2785	≤ 0.0801	603
16	P75R-01C30000-UXXXR	1CX300	2.60	3.60	35.5±1.8	3465	≤ 0.0641	694
<b>CABLE PRINTING</b>		ASHRUBBER (no. of core) X (size) MM2 450/750V BS EN 50525-2-21 H07RN-F ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						

**TWO CORES**

S/N	ASH ITEM CODE	No. of cores X size (MM2)	NOM. INSULATION THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Maximum Conductor DC Resistance at 20°C	Current carrying at 30°C Air (AMPS)
1	P75R-02C00100-UXXXR	2CX1.00	0.80	1.30	8.40±0.5	100	≤ 19.50	16
2	P75R-02C00150-UXXXR	2CX1.50	0.80	1.50	9.40±0.5	130	≤ 13.30	23
3	P75R-02C00250-UXXXR	2CX2.50	0.90	1.70	11.20±0.6	182	≤ 7.98	30
4	P75R-02C00400-UXXXR	2CX4.0	1.00	1.80	13±0.6	260	≤ 4.95	38
5	P75R-02C00600-UXXXR	2CX6.0	1.00	2.00	14.5±0.7	335	≤ 3.30	50
6	P75R-02C01000-UXXXR	2CX10	1.20	3.10	20.3±1	600	≤ 1.91	69
7	P75R-02C01600-UXXXR	2CX16	1.20	3.30	22.6±1.2	820	≤ 1.21	94
8	P75R-02C02500-UXXXR	2CX25	1.40	3.60	27.0±1.5	1150	≤ 0.780	124
9	P75R-02C03500-UXXXR	2CX35	1.40	3.80	30.00±2	1140	≤ 0.554	152
10	P75R-02C05000-UXXXR	2CX50	1.60	4.20	34.5±2	2000	≤ 0.386	190
13	P75R-02C07000-UXXXR	2CX70	1.60	4.60	39.5±2	2680	≤ 0.272	235
14	P75R-02C09500-UXXXR	2CX95	1.80	5.00	43.5±2.5	3420	≤ 0.206	285
<b>CABLE PRINTING</b>		ASHRUBBER (no. of core) X (size) MM2 450/750V BS EN 50525-2-21 H07RN-F ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						

**THREE CORES**

S/N	ASH ITEM CODE	No. of cores X size (MM2)	NOM. INSULATION THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Maximum Conductor DC Resistance at 20°C	Current carrying at 30°C Air (AMPS)
1	P75R-03C00100-UXXXR	3CX1.00	0.80	1.40	9±0.5	120	≤ 19.50	13
2	P75R-03C00150-UXXXR	3CX1.50	0.80	1.60	10.1±0.5	150	≤ 13.30	18
3	P75R-03C00250-UXXXR	3CX2.50	0.90	1.80	12±0.6	215	≤ 7.98	23
4	P75R-03C00400-UXXXR	3CX4.0	1.00	1.90	14.0±0.7	310	≤ 4.95	31
5	P75R-03C00600-UXXXR	3CX6.0	1.00	2.10	15.5±0.8	400	≤ 3.30	41
6	P75R-03C01000-UXXXR	3CX10	1.20	3.30	21.5±1.1	720	≤ 1.91	57
7	P75R-03C01600-UXXXR	3CX16	1.20	3.50	24.0±1.2	1000	≤ 1.21	75
8	P75R-03C02500-UXXXR	3CX25	1.40	3.80	28.7±1.4	1410	≤ 0.780	101
9	P75R-03C03500-UXXXR	3CX35	1.40	4.10	32.0±1.6	1820	≤ 0.554	125
10	P75R-03C05000-UXXXR	3CX50	1.60	4.50	36.8±1.8	2525	≤ 0.386	160
13	P75R-03C07000-UXXXR	3CX70	1.60	4.80	41.5±2	3350	≤ 0.272	195
14	P75R-03C09500-UXXXR	3CX95	1.80	5.30	46.5±2.3	4315	≤ 0.161	235
<b>CABLE PRINTING</b>		ASHRUBBER (no. of core) X (size) MM2 450/750V BS EN 50525-2-21 H07RN-F ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						

The sheath in a single layer or the inner layer of the sheath in two layers shall fill the spaces between the cores.  
Dimensions and Weights are subject for manufacturing Tolerance.

## ASH RUBBER FLEXIBLE RUBBER INSULATED AND SHEATHED 450/750 V GENERAL PURPOSE CABLES

### FOUR CORES

S/N	ASH ITEM CODE	No. of cores X size (MM2)	NOM. INSULATION THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Maximum Conductor DC Resistance at 20°C	Current carrying at 30°C Air (AMPS)
1	P75R-04C00100-UXXXR	4CX1.00	0.80	1.50	10±0.5	145	≤ 19.50	13
2	P75R-04C00150-UXXXR	4CX1.50	0.80	1.70	11.1±0.6	180	≤ 13.30	18
3	P75R-04C00250-UXXXR	4CX2.50	0.90	1.90	13.2±0.7	265	≤ 7.98	24
4	P75R-04C00400-UXXXR	4CX4.0	1.00	2.00	15.2±0.8	380	≤ 4.95	31
5	P75R-04C00600-UXXXR	4CX6.0	1.00	2.30	17.5±0.9	505	≤ 3.30	41
6	P75R-04C01000-UXXXR	4CX10	1.20	3.40	23.5±1.2	885	≤ 1.91	58
7	P75R-04C01600-UXXXR	4CX16	1.20	3.60	26.5±1.3	1235	≤ 1.21	76
8	P75R-04C02500-UXXXR	4CX25	1.40	4.10	31.8±1.6	1775	≤ 0.780	101
9	P75R-05C03500-UXXXR	4CX35	1.40	4.40	35.0±1.7	2295	≤ 0.554	126
10	P75R-04C05000-UXXXR	4CX50	1.60	4.80	40.8±2	3185	≤ 0.386	157
13	P75R-04C07000-UXXXR	4CX70	1.60	5.20	46.1±2.5	4260	≤ 0.272	194
14	P75R-04C09500-UXXXR	4CX95	1.80	5.90	52.5±3	5530	≤ 0.161	235
<b>CABLE PRINTING</b>		ASHRUBBER (no. of core) X (size) MM2 450/750V BS EN 50525-2-21 H07RN-F ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						

### FIVE CORES

S/N	ASH ITEM CODE	No. of cores X size (MM2)	NOM. INSULATION THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Maximum Conductor DC Resistance at 20°C	Current carrying at 30°C Air (AMPS)
1	P75R-05C00100-UXXXR	5CX1.00	0.80	1.60	11±0.6	175	≤ 19.50	10
2	P75R-05C00150-UXXXR	5CX1.50	0.80	1.80	12.2±0.6	225	≤ 13.30	15
3	P75R-05C00250-UXXXR	5CX2.50	0.90	2.00	14.5±0.7	315	≤ 7.98	18
4	P75R-05C00400-UXXXR	5CX4.0	1.00	2.20	17±0.9	465	≤ 4.95	26
5	P75R-05C00600-UXXXR	5CX6.0	1.00	2.50	19.2±1	610	≤ 3.30	33
6	P75R-05C01000-UXXXR	5CX10	1.20	3.60	25.8±1.3	1095	≤ 1.91	46
7	P75R-05C01600-UXXXR	5CX16	1.20	3.90	29.1±1.4	1515	≤ 1.21	61
8	P75R-05C02500-UXXXR	5CX25	1.40	4.40	35.2±1.7	2200	≤ 0.780	81
9	P75R-05C03500-UXXXR	5CX35	1.40	4.60	39.0±1.9	2845	≤ 0.554	101
10	P75R-05C05000-UXXXR	5CX50	1.60	5.20	44.8±2.5	3830	≤ 0.386	125
13	P75R-05C07000-UXXXR	5CX70	1.60	5.70	51.0±3	5230	≤ 0.272	155
14	P75R-05C09500-UXXXR	5CX95	1.80	6.30	57.9±3.5	6825	≤ 0.161	188
<b>CABLE PRINTING</b>		ASHRUBBER (no. of core) X (size) MM2 450/750V BS EN 50525-2-21 H07RN-F ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						

### SIX TO 36 CORES (other core counts are available upon request)

S/N	ASH ITEM CODE	CABLE REQUIREMENT	NOM. INSULATION THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Maximum Conductor DC Resistance at 20°C	Current carrying at 30°C Air (AMPS)
		No. of cores X size (MM2)						
1	P75R-06C00150-UXXXR	6CX1.50	0.80	2.50	14.5±0.6	300	≤ 13.30	13
2	P75R-06C00250-UXXXR	6CX2.50	0.90	2.70	16.7±0.8	420	≤ 7.98	17
3	P75R-06C00400-UXXXR	6CX4.0	1.00	2.90	19.5±0.9	550	≤ 4.95	25
4	P75R-07C00150-UXXXR	7CX1.50	0.80	2.60	14.7±0.6	320	≤ 13.30	13
5	P75R-07C00250-UXXXR	7CX2.50	0.90	2.80	16.9±0.8	450	≤ 7.98	17
6	P75R-07C00400-UXXXR	7CX4.0	1.00	3.10	20.2±0.9	640	≤ 4.95	25
7	P75R-12C00150-UXXXR	12CX1.50	0.80	2.90	18.50±0.6	495	≤ 13.30	13
8	P75R-12C00250-UXXXR	12CX2.50	0.90	3.10	21.4±1.2	700	≤ 7.98	17
9	P75R-12C00400-UXXXR	12CX4.0	1.00	2.90	24.5±1.3	950	≤ 4.95	25
10	P75R-18C00150-UXXXR	18CX1.50	0.80	3.20	21.5±1.2	715	≤ 13.30	13
11	P75R-18C00250-UXXXR	18CX2.50	0.90	3.50	25.3±1.5	1010	≤ 7.98	17
12	P75R-18C00400-UXXXR	18CX4.0	1.00	3.90	30.5±1.6	1670	≤ 4.95	25
13	P75R-24C00150-UXXXR	24CX1.50	0.80	3.50	25.2±1.5	915	≤ 13.30	13
14	P75R-24C00250-UXXXR	24CX2.50	0.90	3.90	27.3±1.5	1190	≤ 7.98	17
15	P75R-36C00150-UXXXR	36CX1.50	0.80	3.80	28.7±1.5	1275	≤ 13.30	13
16	P75R-36C00250-UXXXR	36CX2.50	0.90	4.30	35.3±1.6	2305	≤ 7.98	25
<b>CABLE PRINTING</b>		ASHRUBBER (no. of core) X (size) MM2 450/750V BS EN 50525-2-21 H07RN-F ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						

The sheath in a single layer or the inner layer of the sheath in two layers shall fill the spaces between the cores.  
Dimensions and Weights are subject for manufacturing Tolerance.