

# Power Control & Security Cable, JB-750 HMH-C 1.5 to 4.0 MM<sup>2</sup>, Overall Screen & HFFR/LSZH Sheath

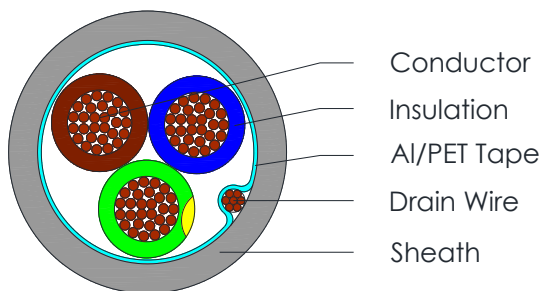


C3470, C3471, C3472, C3473, C3474, C3475, C3476, C3477, C3478

## Applications

This cable used as measuring and control cable in machine tools, conveyor belts, production lines as well as in plant installations, in air-conditioning and steel production works. For fixed installation or flexible application, directed without forcing by casual, not constantly recurring free movements and without tensile stress, for medium mechanical strain. This cable is suitable for the application in dry, damp and wet environments and also for laying on, in and under plaster as well as in concrete and masonry excluding in direct laying in vibrated or stamped concrete, not suitable for imbedding in solidified or compressed concrete.

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Flexible Bare Copper wire, Class 5
Insulation	HFFR/LSZH 1 Core: Green-yellow 2 Cores: Brown/Blue 3 Cores: Green-yellow/ Brown/Blue 4 Cores: Green-yellow/ Brown/Black/Gray 5 Cores: Green-yellow/Gray/Black/Brown/Blue 6 Cores and up: Green-yellow/ Black cores with White numbers Green-yellow grounding in the outer layer
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	24 AWG (7 x 32) Tinned Copper
Sheath	Oil Resistance Halogen Free Flame-Retardant (HFFR/LSZH) Standard colour: Gray
Standard Put Up Length	305 meters

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

**Power Control & Security Cable,  
JB-750 HMH-C 1.5 to 4.0 MM<sup>2</sup>, Overall Screen  
& HFFR/LSZH Sheath**



**C3470, C3471, C3472, C3473, C3474, C3475, C3476, C3477, C3478**

**Physical Characteristics**

Part Number	C3470	C3471	C3472	C3473	C3474	C3475	C3476	C3477	C3478
No of cores & cross-section (mm <sup>2</sup> )	3G1.5	4G1.5	5G1.5	3G2.5	4G2.5	5G2.5	3G4.0	4G4.0	5G4.0
Nom. Overall Diameter(mm)	8.2	9.0	10.1	10.1	11.0	12.1	11.6	12.6	14.1
Operating Temperature (°C)	-40 to +75								
Min. Bend Radius (install)(mm)	103	113	126	126	138	151	145	158	176
Nominal Cable Weight (kg/km)	112	142	184	184	226	275	241	296	362

**Electrical Characteristics at 20°C**

Part Number	C3470	C3471	C3472	C3473	C3474	C3475	C3476	C3477	C3478
No of cores & cross-section (mm <sup>2</sup> )	3G1.5	4G1.5	5G1.5	3G2.5	4G2.5	5G2.5	3G4.0	4G4.0	5G4.0
Max. DC Resistance Conductor (Ω/km)	13.3			7.98			4.95		
Test Voltage (V)	3000								
Min. insulation Resistance (MΩ*km)	100								
Max. Operating Voltage U <sub>0</sub> /U (Vrms)	450/750								

**Reference Standards**

(BS) EN 50290-2	IEC 60754-1 & 2
IEC 60228 Class 5	IEC 61034
VDE 0293-308	IEC 60332-3-24
RoHS directives	