

Power Control & Security Cable, JZ-500 HMH-C & OZ-500 HMH-C



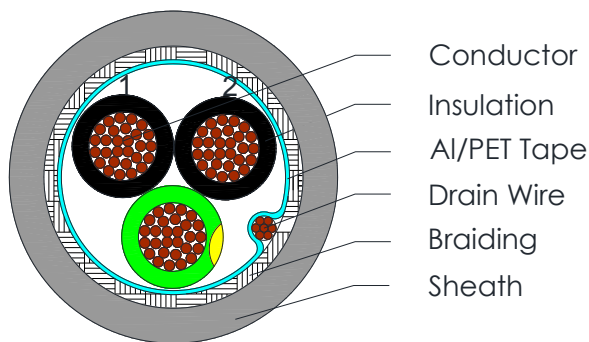
0.75 to 4.0 MM²

C3479 TO C3520

Applications

This cable used as instrumentation and control cables in tooling machinery, conveyor and transportation belts, product lines, in plant construction, air-conditioning systems as well as in iron and steel works. For fixed installation or for flexing applications, for casual, not constantly recurring free movement without forced motion and without tensile stress for medium mechanical loads. These cables are suitable for use in dry, damp and wet environments for installation in, on and beneath plaster, as well as in concrete walls except for direct embedding in vibrated, compacted or tamped concrete, not suitable for embedding in solidified or compressed concrete. An interference-free transmission of signals and impulses is assured by the high degree of shielding.

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Bare Copper wire, Class 5
Insulation	HFFR/LSZH Black conductors with white continuous numbering Green-yellow grounding in the outer layer (3 conductors and above) JZ-500 HMH-C with Grounding Green-Yellow OZ-500 HMH-C without Grounding Green-Yellow
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	24 AWG (7 x 32) Tinned Copper
Braiding	Tinned copper wire
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.

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Electrical Characteristics at 20°C

Conductor Size(sqmm)	Max. DCR (Ohm/km)	Test voltage (V)	Nominal Voltage U0/U (V)	Max. Coupling Resistant (Ohm/km)	Min Insulation Resistance (M.Ohm/km)
0.75	26.0	2000	300/500	250	100
1.00	19.5	2000	300/500	250	100
1.50	13.3	2000	300/500	250	100
2.50	7.98	2000	300/500	250	100
4.00	4.95	2000	300/500	250	100

Constructional Information

JZ-500 HMH-C

P/N	No. of conductors x cross-section in mm ²	Nom. Overall Diameter (mm)	Nom Copper Weight (kg/km)	Nom. Weight (kg/km)
C3479	3G 0.75	6.3	52.0	68.0
C3480	4G 0.75	6.8	60.0	78.0
C3481	5G 0.75	7.4	71.0	95.0
C3482	7G 0.75	8.2	91.0	130.0
C3483	12G 0.75	10.5	142.0	203.0
C3484	18G 0.75	12.7	212.0	290.0
C3485	25G 0.75	15.0	281.0	413.0
C3486	3G 1.00	6.7	60.0	80.0
C3487	4G 1.00	7.2	71.0	100.0
C3488	5G 1.00	8.0	88.0	130.0
C3489	7G 1.00	8.7	111.0	160.0
C3490	12G 1.00	11.4	184.0	260.0
C3491	18G 1.00	13.5	260.0	382.0
C3492	25G 1.00	16.1	349.0	540.0
C3493	3G 1.50	7.4	80.0	100.0
C3494	4G 1.50	8.1	97.0	125.0
C3495	5G 1.50	9.0	119.0	158.0
C3496	7G 1.50	9.8	147.0	210.0
C3497	12G 1.50	12.8	267.0	340.0
C3498	18G 1.50	15.5	374.0	480.0
C3499	25G 1.50	18.5	526.0	702.0
C3500	3G 2.50	8.8	144.0	168.0
C3501	4G 2.50	9.8	148.0	195.0
C3502	5G 2.50	10.8	181.0	222.0
C3503	7G 2.50	11.9	255.0	345.0
C3504	12G 2.50	15.8	441.0	572.0
C3505	3G 4.00	10.4	174.0	238.0
C3506	4G 4.00	11.6	230.0	305.0
C3507	5G 4.00	12.9	173.0	388.0
C3508	7G 4.00	14.2	316.0	504.0

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OZ-500 HMH-C

P/N	No. of conductors x cross-section in mm ²	Nom. Overall Diameter (mm)	Nom Copper Weight (kg/km)	Nom. Weight (kg/km)
C3509	2 X 0.75	6.1	40.0	60.0
C3510	3 X 0.75	6.3	52.0	68.0
C3511	4 X 0.75	6.8	60.0	78.0
C3512	5 X 0.75	7.4	71.0	95.0
C3513	7 X 0.75	8.2	91.0	130.0
C3514	2 X 1.00	6.4	50.0	66.0
C3515	3 X 1.00	6.7	60.0	80.0
C3516	4 X 1.00	7.2	71.0	100.0
C3517	2 X 1.50	7.0	63.0	88.0
C3518	3 X 1.50	7.4	80.0	100.0
C3519	2 X 2.50	8.4	96.0	132.0
C3520	2 X 4.00	9.9	120.0	184.0

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	