

APPLICATION

--For transmission of signals in instrument and control systems (Interconnection of electrical equipment and instruments.) used within industrial process manufacturing plants for communication, data and voice transmission signals and services. 500V rated voltage.

STANDARDS

BS EN 50288-7	Multi-element metallic cables used in analogue and digital communication and control. Part 7: Sectional specification for instrumentation and control cables.
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CONSTRUCTION DETAILS

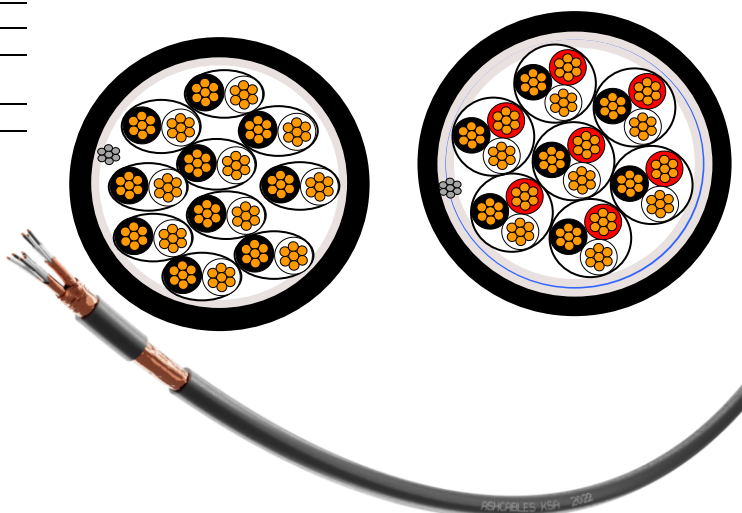
CONDUCTOR	Plain Annealed copper to ASTM B3, Stranded conductor Class 2 of BS EN 60228.
INSULATION	Crosslinked Polyethylene (XLPE) or Polyvinyl Chloride (PVC).
COLORS	Pair: Black/White, Numeric print on each for Multipair.
IDENTIFICATION	Triad: Black/White/Red, Numeric print on each for MultiTriads.
PAIRS/TRIADS	Two or Three cores are twisted into Pairs/Triads, in suitable lay length.
COLOR CODES	-Pairs: Black/White with successive numbers on each core. -Triads: Black/White/Red with successive numbers on each core.
ASSEMBLY	The required number of pairs/triads are assembled with non-hygroscopic fillers (if required) and wrapped with a polyester binder tape
OVERALL SHIELDING	Aluminum-Polyester (AL-PET foil) laminated tape with 100% coverage and suitable overlap, in contact with stranded tinned copper drain wire. (0.50 mm ²)
OUTER JACKET	Poly Vinyl Chloride Flame Retardant Sunlight or Low Smoke Zero Halogen Free (LSZH) type.

ELECTRICAL PROPERTIES

CONDUCTOR (DC) RESISTANCE @ 20°C(Ω/Km)	MATERIAL TYPE	UNIT	CONDUCTOR SIZE (mm ²)			
			0.50	0.75	1.0	1.5
	PLAIN Cu	Ω/Km	≤21.80	≤13.70	≤8.620	5.41
	TINNED Cu	Ω/Km	≤22.70	≤14.30	≤8.96	5.61
Mutual Capacitance	XLPE	nF/Km	150	150	150	150
	PVC	nF/Km	250	250	250	250
Inductance to Resistance Ratio	L/R	μH/Ω	25	40	60	100
Voltage Test	2 KV (60 sec)					

PHYSICAL & ENVIRONMENTAL PROPERTIES

Flame Retardant	IEC 60332-1-2, IEC 60332-3-24
Minimum Bending Radius	10xCable Outside Diameter
Temperature Range	-30°C to 70°C and 90°C



DIMENSIONS AND WEIGHTS

ASH CABLES ITEM CODE	Cross Sectional Area (mm ²) (No. of wire X SIZE mm)	NO. OF PAIRS/ TRIAD	Overall diameter Approx. (mm)	Net Weight Approx. (Kg/km)
I23X-01P00050-UBK6D	0.50(7X0.30)	1P	6.00	47
I23X-02P00050-UBK6D		2P	8.50	82
I23X-04P00050-UBK6D		4P	10.30	140
I23X-06P00050-UBK6D		6P	12.40	185
I23X-08P00050-UBK6D		8P	13.70	230
I23X-10P00050-UBK6D		10P	15.90	290
I23X-12P00050-UBK6D		12P	16.30	340
I23X-16P00050-UBK6D		16P	18.00	428
I23X-24P00050-UBK6D		24P	22.80	640
I23X-01T00050-UBK6D	0.50(7X0.30)	1T	6.30	57
I23X-02T00050-UBK6D		2T	9.70	105
I23X-04T00050-UBK6D		4T	11.50	180
I23X-06T00050-UBK6D		6T	13.90	250
I23X-08T00050-UBK6D		8T	15.30	315
I23X-10T00050-UBK6D		10T	17.70	405
I23X-12T00050-UBK6D		12T	18.00	470
I23X-16T00050-UBK6D		16T	20.20	585
I23X-24T00050-UBK6D		24T	25.90	795
I23X-01P00075-UBK6D	0.75(7X0.37)	1P	6.60	60
I23X-02P00075-UBK6D		2P	9.70	106
I23X-04P00075-UBK6D		4P	11.50	180
I23X-06P00075-UBK6D		6P	13.70	250
I23X-08P00075-UBK6D		8P	15.30	320
I23X-10P00075-UBK6D		10P	17.80	410
I23X-12P00075-UBK6D		12P	18.50	470
I23X-16P00075-UBK6D		16P	20.50	600
I23X-24P00075-UBK6D		24P	25.70	895
I23X-01T00075-UBK6D	0.75(7X0.37)	1T	6.90	73
I23X-02T00075-UBK6D		2T	11.10	153
I23X-04T00075-UBK6D		4T	12.90	249
I23X-06T00075-UBK6D		6T	15.40	350
I23X-08T00075-UBK6D		8T	17.50	465
I23X-10T00075-UBK6D		10T	20.00	570
I23X-12T00075-UBK6D		12T	20.70	664
I23X-16T00075-UBK6D		16T	23.30	870
I23X-24T00075-UBK6D		24T	29.00	1260

Dimensions and Weights are subject for manufacturing Tolerance.

DIMENSIONS AND WEIGHTS

ASH CABLES ITEM CODE	Cross Sectional Area (AWG) (No. of wire X SIZE mm)	NO. OF PAIRS/ TRIAD	Overall diameter Approx. (mm)	Net Weight Approx. (Kg/km)
I23X-01P00100-UBK6D	1.0(7X0.43)	1P	8.00	91
I23X-02P00100-UBK6D		2P	12.30	175
I23X-04P00100-UBK6D		4P	14.30	280
I23X-06P00100-UBK6D		6P	17.50	420
I23X-08P00100-UBK6D		8P	19.70	530
I23X-10P00100-UBK6D		10P	22.8	674
I23X-12P00100-UBK6D		12P	23.60	770
I23X-16P00100-UBK6D		16P	26.20	975
I23X-24P00100-UBK6D		24P	33.10	1465
I23X-01T00100-UBK6D	1.0(7X0.43)	1T	8.40	113
I23X-02T00100-UBK6D		2T	13.50	230
I23X-04T00100-UBK6D		4T	16.30	405
I23X-06T00100-UBK6D		6T	19.50	575
I23X-08T00100-UBK6D		8T	21.90	735
I23X-10T00100-UBK6D		10T	25.40	930
I23X-12T00100-UBK6D		12T	26.30	1075
I23X-16T00100-UBK6D		16T	29.30	1390
I23X-24T00100-UBK6D		24T	37.30	2070
I23X-01P00150-UBK6D	1.5(7X0.525)	1P	9.00	114
I23X-02P00150-UBK6D		2P	13.70	222
I23X-04P00150-UBK6D		4P	16.50	388
I23X-06P00150-UBK6D		6P	19.70	555
I23X-08P00150-UBK6D		8P	22.10	715
I23X-10P00150-UBK6D		10P	25.70	905
I23X-12P00150-UBK6D		12P	26.75	1055
I23X-16P00150-UBK6D		16P	29.70	1355
I23X-24P00150-UBK6D		24P	37.30	2020
I23X-01T00150-UBK6D	1.5(7X0.525)	1T	9.50	155
I23X-02T00150-UBK6D		2T	15.40	3
I23X-04T00150-UBK6D		4T	18.60	553
I23X-06T00150-UBK6D		6T	22.20	785
I23X-08T00150-UBK6D		8T	25.50	1045
I23X-10T00150-UBK6D		10T	29.00	1285
I23X-12T00150-UBK6D		12T	30.00	1500
I23X-16T00150-UBK6D		16T	33.80	1980
I23X-24T00150-UBK6D		24T	42.10	2950

Dimensions and Weights are subject for manufacturing Tolerance.