

## IEC60332 (FLEXIBLE) INSTRUMENTATION FLAME RETARDANT / UKOOA

Flexible Tinned annealed copper conductors/EPR (Ethylene Propylene Rubber) Insulated/Screened\* (including a tinned copper drain wire)/ZHAL/GSWB(Galvanised Steel Wire Braid)/ZHAL 150/250 Volts grade to BS6883 & IEC332 Part 3 Cat A where applicable. Standard sheath colours: Light Blue (IS) and Grey (Non IS). ZHAL: SW4 (0.5% HCL) (\* As applicable.)

CONDUCTOR SIZE SQ.MM	Configuration	* COLLECTIVELY SCREENED PAIRS						
		1 Pair	3 Pair	7 Pair	12 Pair	20 Pair	27 Pair	37 Pair
0.75	Min Insulation Thickness (mm)	For Single	0.80	0.80	0.80	0.80	0.80	0.80
	Min Bedding Thickness (mm)	pair cables	1.20	1.40	1.60	1.80	1.90	2.10
	Min Under Armour Diameter (mm)	refer to	12.4	16.5	21.4	27.0	30.6	34.8
	Max Under Armour Diameter (mm)	Individually	13.8	18.1	23.4	29.0	33.0	37.2
	Nom Braid Armour Thickness (mm)	screened	0.75	0.75	0.75	1.13	1.13	1.13
	Nom Diameter Over Braid (mm)	table	14.5	18.7	23.8	30.2	33.9	38.1
	Min Sheath Thickness (mm)	shown	1.40	1.50	1.70	2.00	2.20	2.30
	Min Overall Diameter (mm)	below.	16.9	21.1	26.7	33.5	37.7	41.9
	Max Overall Diameter (mm)		18.5	23.4	28.7	35.9	40.1	44.7
	Weight Kg/Km (approx)		474	713	1035	1665	2024	2574

CONDUCTOR SIZE SQ.MM	Configuration	* INDIVIDUALLY SCREENED PAIRS			
		1 Pair	3 Pair	7 Pair	12 Pair
0.75 & 1.00 (single pair)	Conductor Size mm <sup>2</sup>	1.00	0.75	0.75	0.75
	Min Insulation Thickness (mm)	0.80	0.80	0.80	0.80
	Min Bedding Thickness (mm)	1.00	1.20	1.40	1.60
	Min Under Armour Diameter (mm)	7.7	13.0	18.1	23.2
	Max Under Armour Diameter (mm)	8.9	14.4	19.7	25.2
	Nom Braid Armour Thickness (mm)	0.75	0.75	0.75	0.75
	Nom Diameter Over Braid (mm)	9.72	15.1	20.3	25.6
	Min Sheath Thickness (mm)	1.20	1.40	1.60	1.80
	Min Overall Diameter (mm)	11.8	17.5	22.9	28.6
	Max Overall Diameter (mm)	13.2	19.1	24.9	30.6
Weight Kg/Km (approx)	260	525	855	1265	

CONDUCTOR SIZE SQ.MM	Configuration	* INDIVIDUALLY SCREENED TRIPLES			
		1 Triple	3 Triples	7 Triples	12 Triples
0.75	Min Insulation Thickness (mm)	0.80	0.80	0.80	0.80
	Min Bedding Thickness (mm)	1.00	1.30	1.50	1.70
	Min Under Armour Diameter (mm)	7.8	15.8	21.4	29.0
	Max Under Armour Diameter (mm)	9.0	17.4	23.4	31.4
	Nom Braid Armour Thickness (mm)	0.75	0.75	0.75	1.13
	Nom Diameter Over Braid (mm)	9.8	18.0	23.8	32.3
	Min Sheath Thickness (mm)	1.20	1.50	1.70	2.00
	Min Overall Diameter (mm)	11.9	20.5	26.7	35.6
	Max Overall Diameter (mm)	13.3	22.5	28.7	38.0
	Weight Kg/Km (approx)	265	699	1168	1977

CONDUCTOR SIZE SQ.MM	Configuration	* INDIVIDUALLY SCREENED QUADS		
		1 Quad	3 Quads	7 Quads
0.75	Min Insulation Thickness (mm)	0.80	0.80	0.80
	Min Bedding Thickness (mm)	1.10	1.30	1.50
	Min Under Armour Diameter (mm)	8.9	16.6	22.0
	Max Under Armour Diameter (mm)	10.1	18.2	24.3
	Nom Braid Armour Thickness (mm)	0.75	0.75	0.75
	Nom Diameter Over Braid (mm)	11.6	19.5	24.8
	Min Sheath Thickness (mm)	1.20	1.50	1.70
	Min Overall Diameter (mm)	13.1	21.2	27.5
	Max Overall Diameter (mm)	14.5	23.2	29.5
	Weight Kg/Km (approx)	310	890	1463