

CABLE SPECIFICATIONS

	HD100 Class A+	WF100	WF65 Twin	WF125	WF165	TWINSAT 100	RG6	RG6 SDU	CT100	WF100 5core + Earth
CAI Approved	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Internal cables only
Inner conductor	Copper	Copper	Copper	Copper	Copper	Copper	Copper Clad Steel	Copper Clad Steel	Copper	Copper
Dielectric	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE
Diameter over dielectric	4.6mm	4.8mm	2.9mm	5.75mm	7.28mm	4.6mm	4.8mm	4.8mm	4.65mm	4.6mm
First screen	Copper Foil	Copper Foil	Copper Foil	Copper Foil	Copper Foil	Copper Foil	Aluminium Foil	Aluminium Foil	Aluminium Foil	Copper Foil
Second screen	Plain Copper Wire Braid	Plain Copper Wire Braid	Plain Copper Wire Braid	Plain Copper Wire Braid	Plain Copper Wire Braid	Plain Copper Wire Braid	Aluminium Wire Braid	Aluminium Wire Braid	Copper Clad Aluminium Braid	Plain Copper Wire Braid
Third screen	Copper Foil	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sheath	LSNH	PVC, LSF or LSNH	PVC	PE or LSNH	PE or LSNH	LSF	PVC	PVC	PVC	LSF
Overall diameter	6.75mm +/-0.3mm	6.65mm +/-0.3mm	4.7 x 9.8mm +/-0.2mm	8.0mm +/-0.3mm	10.1mm +/-0.3mm	6.65 x 13.3mm +/-0.3mm	6.8mm +/-0.2mm	6.7mm +/-0.2mm	6.70mm +/-0.15mm	21.0mm +/-0.30mm
Temperature range	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C	Fixed -15°C to +70°C Flexing -5°C to +70°C
Bend radius	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter	10 x Overall Diameter
Weight	51kg/km	51kg/km	65kg/km	70kg/km	98kg/km	51kg/km	41kg/km	44kg/km	40kg/km	520kg/km
Characteristic impedance	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω
DC resistance inner conductor	< 26.0 Ω/Km	< 26.0 Ω/Km	< 55.0 Ω/Km	< 15.0 Ω/Km	< 10.2 Ω/Km	≤ 26.0 Ω/km	≤ 125.0 Ω/km	≤ 105 Ω/km	≤ 26.0 Ω/km	< 26.0 Ω/Km
DC resistance outer conductor	< 15.0 Ω/Km	<15.0 Ω/Km	< 16.0 Ω/Km	< 13.5 Ω/Km	< 12.0 Ω/Km	≤ 15.0 Ω/km	≤ 54.0 Ω/km	≤ 63.5 Ω/km	≤ 63.5 Ω/km	<15.0 Ω/Km
Capacitance	54 p/F/m	54 p/F/m	53 p/F/m	53 p/F/m	53 p/F/m	54 p/F/m	50 p/F/m	53 p/F/m	49 p/F/m	54 p/F/m
Velocity ratio	0.82	0.82	0.83	0.84	0.82	0.82	0.81	0.83	0.82	0.82
Return loss at										
5 - 470 MHz	> 23 dB	> 23 dB	> 23 dB	> 23 dB	> 23 dB	> 23 dB	> 20 dB	> 23 dB	> 23 dB	> 23 dB
470 - 862 MHz	> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 20 dB	≥ 18 dB	> 20 dB	> 18 dB	> 20 dB
862 - 2150 MHz	> 18 dB	> 18 dB	> 15 dB	> 18 dB	> 18 dB	> 18 dB	≥ 18 dB	> 18 dB	> 18 dB	> 18 dB
Attenuation (dB/100m at 20°C)										
5 MHz	< 1.6	< 1.6	< 2.7	< 1.5	< 1.0	< 1.6		< 2.0	< 1.6	< 1.6
50 MHz	< 4.6	< 4.6	< 7.5	< 3.5	< 3.0	< 4.6		< 4.9	< 4.6	< 4.6
100 MHz	< 6.5	< 6.5	< 10.0	< 5.0	< 4.0	< 6.5	< 10.1	< 6.9	< 6.5	< 6.5
200 MHz	< 9.5	< 9.5	< 13.8	< 7.5	< 6.0	< 9.5	< 11.5	< 9.7	< 9.5	< 9.5
460 MHz	< 15.0	< 15.0	< 21.4	< 11.5	< 9.0	< 15.0	< 15.5 @ 500MHz	< 14.8	< 15.5 @ 500MHz	< 15.0
860 MHz	< 19.5	< 19.5	< 30.0	< 15.5	< 12.5	< 19.5	< 19.8 @ 800MHz	< 20.2	< 19.8 @ 800MHz	< 19.5
1000 MHz	< 21.5	< 21.5	< 32.5	< 17.0	< 13.5	< 21.5	< 22.8	< 21.8	< 21.5	< 21.5
1750 MHz	< 29.0	< 29.0	< 42.2	< 22.8	< 19.0	< 29.0	< 30.2	< 28.8	< 29.0	< 29.0
2150 MHz	< 32.5	< 32.5	< 47.0	< 26.0	< 22.0	< 32.5	< 31.5	< 32.0	< 32.5	< 32.5
UKCA CPR Classification(s)	Dca	Fca, Eca, Dca, Cca	Eca	Fca, Dca	Fca, Dca	Eca	Eca	Eca	Eca	Eca