

Composite Cable

Part No: GCC2302-0080

Description

4C x 14/0.2 mm : Stranded 21AWG PACW, 4 Cores, PVC Insulation, PVC Sheath;
 6C x 14/0.2 mm : Stranded 21AWG PACW, 6 Cores, PVC Insulation, PVC Sheath;
 2P x 7/0.25 mm IS : Stranded 22AWG TACW, 2 Twisted Pairs, PP Insulation, Al. Polyester Tape Pair Screen, Stranded 24AWG TACW Drain Wire, PVC Sheath;
 24/0.2 mm Fig 8 : Stranded 19AWG PACW, Figure 8 construction, PVC Insulation; Mylar Tape, PVC Outer Sheath.

Applicable Standards

AS/CA S008, UL758 20098, UL758 20093, UL758 2468

Suitable Applications

A range of cables with composite cores have been designed and manufactured to meet individual customer needs.
 Not suitable for mains connection.

Images

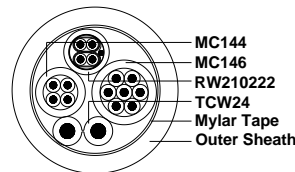
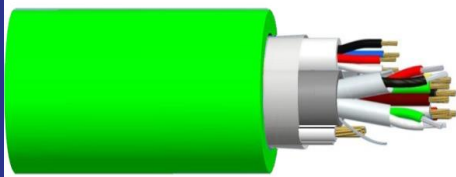


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Cable Description

Construction

4C x 14/0.2mm

Conductor	Material	PACW
	Size	21 AWG
	Stranding	14/0.2
	Area	0.44 mm ²
	Diameter	0.87 mm
Insulation	Cores	4
	Material	PVC
	Colour	White, Blue, Red, Black
	Nominal Thickness (mm)	0.3

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	Nominal OD (mm)	1.5
Sheath	Material	PVC
	Colour	White
	Nominal Thickness (mm)	0.5
	Nominal OD (mm)	4.7
6C x 14/0.2mm		
Conductor	Material	PACW
	Size	21 AWG
	Stranding	14/0.2
	Area	0.44 mm ²
	Diameter	0.87 mm
Insulation	Cores	6
	Material	PVC
	Colour	White, Blue, Red, Black, Yellow, Green
	Nominal Thickness (mm)	0.3
Sheath	Nominal OD (mm)	1.5
	Material	PVC
	Colour	Grey
	Nominal Thickness (mm)	0.5
	Nominal OD (mm)	5.5
2P x 7/0.25 IS		
Conductor	Material	TACW
	Size	22 AWG
	Stranding	7/0.25
	Area	0.34 mm ²
	Diameter	0.75 mm
Insulation	Pairs :	2
	Material	PP
	Colour	Red/Black, Green/White
	Nominal Thickness (mm)	0.22
	Nominal OD (mm)	1.2
Pair Screen	Material	Al. Foil, 100% Coverage
Drain Wire	Material	TACW
	Size	24AWG
	Stranding	7/0.2mm
Sheath	Material	PVC
	Colour	Grey
	Nominal Thickness (mm)	0.4

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	Nominal OD (mm)	4.2
24/0.2mm Fig 8		
Conductor	Material	PACW
	Size	19 AWG
	Stranding	24/0.2
	Area	0.75 mm ²
	Diameter	1.13 mm
Insulation	Cores	2
	Material	PVC
	Colour	White/Black Stripe
	Nominal Thickness (mm)	0.7
	Nominal OD (mm)	2.7 x 5.4
Overall Cable		
Filler	Material	Mylar Tape, 100% Coverage
	Material	PVC
	Colour	Green
	Nominal Thickness (mm)	0.7
	Nominal OD (mm)	12.6* Rope shape

Electrical Properties

4C x 14/0.2mm	
Voltage Rating	150V
Max. Conductor DC Resistance @ 20°C	50.0Ω/km
Min. Insulation Resistance @ 20°C	50MΩ.km
Voltage Test: Conductor to core	2.0kV ac/1min
Voltage Test: Core to sheath	3.0kV ac/1min
6C x 14/0.2mm	
Voltage Rating	150V
Max. Conductor DC Resistance @ 20°C	50.0Ω/km
Min. Insulation Resistance @ 20°C	50MΩ.km
Voltage Test: Conductor to core	2.0kV ac/1min
Voltage Test: Core to sheath	3.0kV ac/1min
2P x 7/0.25 IS	
Voltage Rating	150V
Conductor Max D.C Resistance @ 20°C	49.2ohm/km
Min. Insulation Resistance @ 20°C	1000MΩ.km

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Electrical Properties

Characteristic Impedance	45ohm
Nom. Capacitance Core to Core @ 1KHz	115pF/m
Nom. Capacitance Core to Shield @ 1KHz	203pF/m
Voltage Test: Conductor to core	2.0kV ac/1min
Voltage Test: Core to Shielded	500V ac/1min
Voltage Test: Core to sheath	3.0kV ac/1min
Voltage Test: Shielded to sheath	3.0kV ac/1min

24/0.2mm Fig 8

Voltage Rating	300V
Max. Conductor DC Resistance @ 20°C	29.2Ω/km
Min. Insulation Resistance @ 20°C	50MΩ.km
Voltage Test: Conductor to core	2.0kV ac/1min

Mechanical Properties

Operating Temperature Range	-15 to 60°C
Max. Recommended Pulling Tension	508N
Min. Bend Radius (install)	76mm
Approximate Mass	17.8kg/100m
Sheath Printing	RCM GARLAND GCC2302-0080 COMPOSITE FIG8+4C+6C+2IS COMPOSITE SECURITY - Batch - (meter marking) MT

Supply Information

Product No	Pack Type	Pack Size	Dimensions	Qty Per Carton	Cartons Per Pallet
GCC2302-0080GN100	Wooden Reel	100m	W40 x 27.4cm	TBA	TBA
GCC2302-0080GN200	Wooden Reel	200m	W52 x 27.4cm	TBA	TBA
GCC2302-0080GN250	Wooden Reel	250m	W48 x 39.4cm	TBA	TBA
GCC2302-0080GN500	Wooden Reel	500m	W65 x 46cm	TBA	TBA

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Change Record

Issue	Date	Prepared By	Approved By
01	31-08-2023	WDM	LQM
02	05-09-2023	WDM	LQM

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances

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