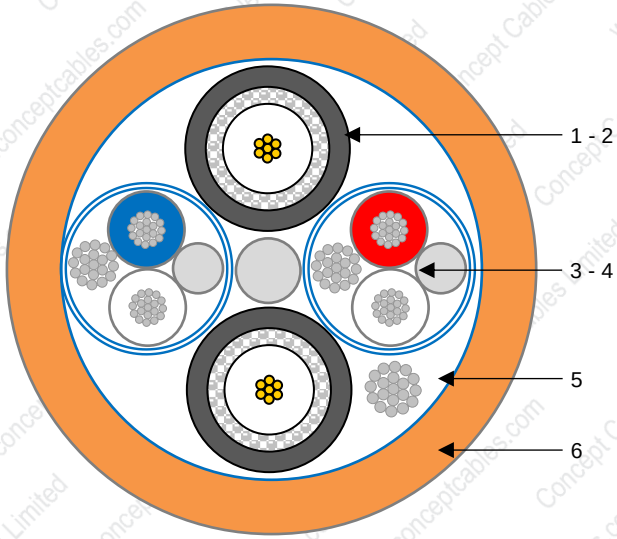
Part No:	**SCO001708**
Customer Ref:	
Project No:	**16471**



No	Description	Colr	Dia mm
1 2	**2 position RG174 Coaxial Cables** RG 174 A/U MIL-C-17G 26AWG (7/0.16mm Copper Clad Steel central conductor. Solid Polyethylene Dielectric Tinned Copper Braid, 90% optical coverage. LSOH elastomer jacket.	BK	2.60 +/- 0.20
3 4	**2 position Screened Twisted Pairs** 24AWG (19/0.127mm) Tinned Copper Polyolefin insulated to 1.20mm +/- 0.05mm 2 no twisted together with 1 position 19/0.127mm Tinned Copper Drain Wire and 0.75mm solid filler in interstices. Overall helical Ali/PET foil screen, nominal overlap 50%. Overall helical PTFE Isolation tape, nominal overlap 50%.	RD WH BU WH	2.70
5	**Lay-up and Overall Screen** Items 1 – 4 cabled together around 1.15mm solid filler with 20AWG (19/0.20mm) Tinned Copper drain wire in one interstice. Overall helical Ali/PET Foil Screen, nominal overlap 50%.	N/A	6.40
6	**Jacket** Pressure extruded polyether polyurethane (COM050009). Halogen Free. 1.50mm nominal RTI	OR RAL2003	9.50 +/- 0.30

Specification	
Electrical Characteristics	
24AWG Screened Twisted Pairs	
Maximum Conductor Resistance	82.00 Ω/KM @ 20°C
Minimum Insulation Resistance	
Core – Core	>2.00 GΩ/KM
Core – Screen	>1.00 GΩ/KM
Screen - Screen	> 10.00 MΩ/KM
Voltage Rating	300 V
Nominal Capacitance	75 pF/m
Nominal Characteristic Impedance	90 Ω
RG174 Coaxial Cables	
See separate Data Sheet	
Mechanical Characteristics	
Maximum Operating Temp	
Static	+80°C
Dynamic	+70°C
Cold Flex Temp	-40°C
Min Recommended Bend Radius	
Static	55 mm
Dynamic	140 mm
Nominal Weight	
In Air	147 KG/KM
In Sea Water @ SG 1.025	75 KG/KM

Print Details
Legend: Applied Acoustic Engineering
Colour: Black
Repeat: 1,000mm

Applied Acoustic Engineering

RoHS COMPLIANT 2011/65/EC
LVD COMPLIANT 2014/35/EU

ISSUE	DESCRIPTION	DRWN	DATE	CKD	DATE	APPD	DATE
03	Add Pair Drains, Isolation & Print	AJK	20/06/23	JM	20/06/23	KV	19/07/23
02	Add overall Screen and Drain Wire	AJK	06/06/23	JM	06/06/23		
01	Original	AJK	31/05/23	JM	31/05/23		

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Conceptcables FROM CONCEPT TO CABLE

TITLE: 4C-24AWG-2STP+2CX-F-PU-OR-9.50
DESCRIPTION:
CUSTOMER: Scorpion Oceanics Ltd