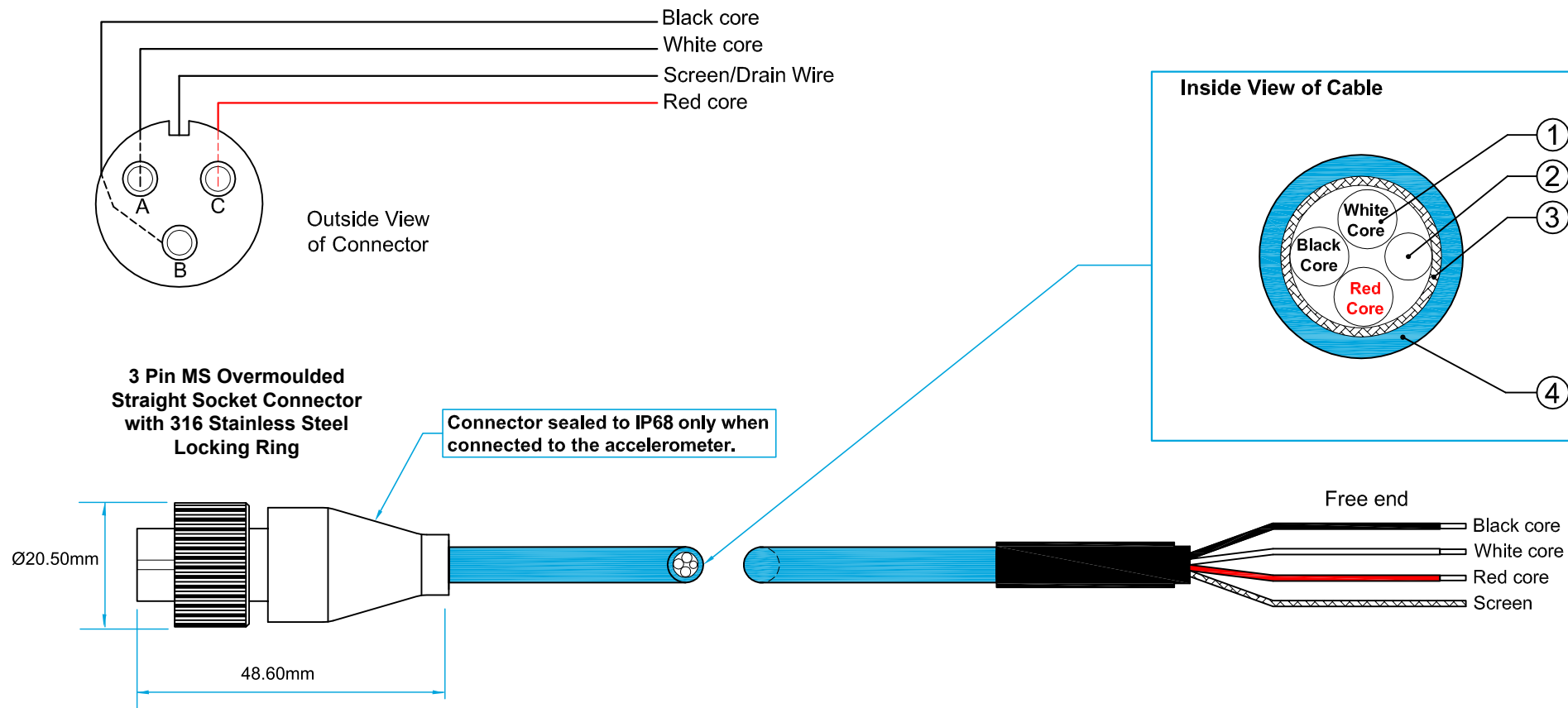


Connection Details of Cable Assembly



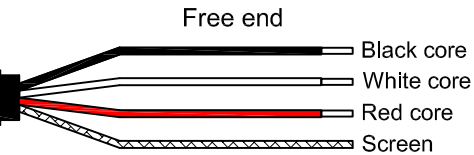
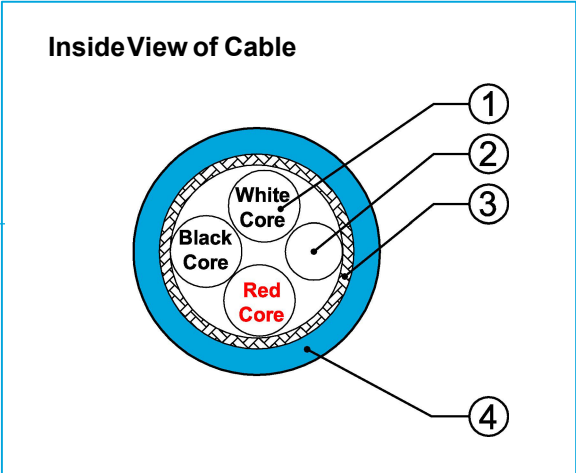
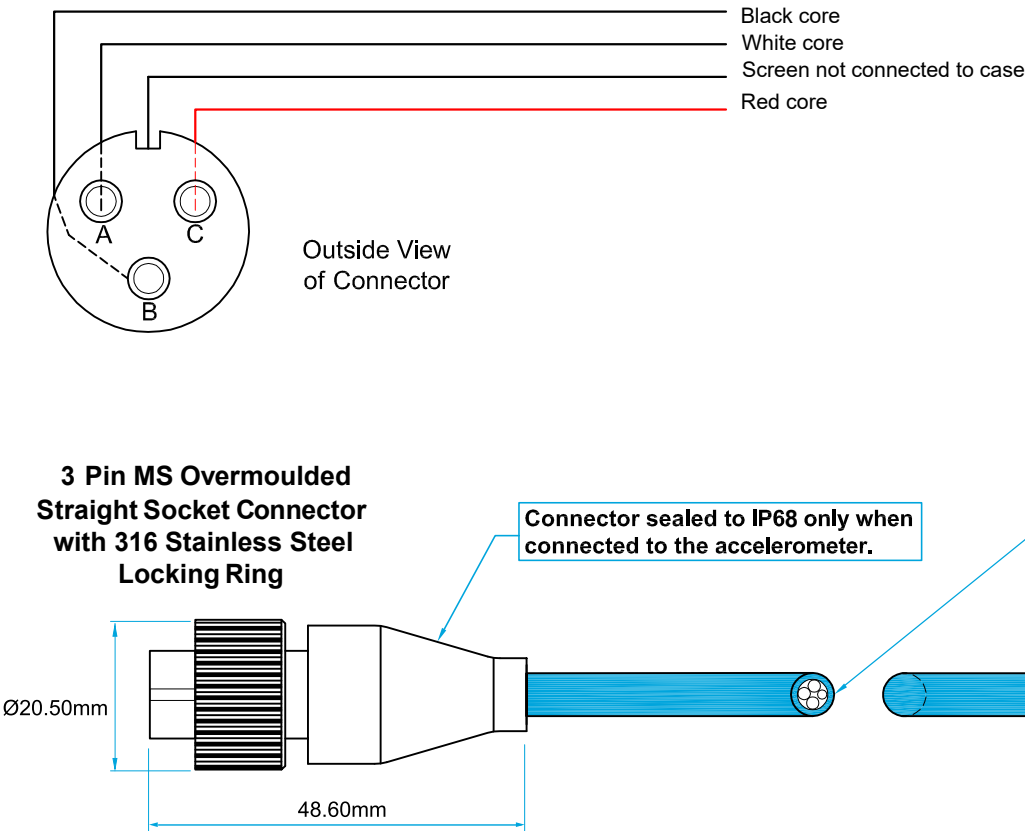
Environment Specification of Cable Assembly

Maximum operating temperature of 150°C with high levels of resistance to chemical attack.

Materials of Cable: High Temperature FEP Cable				
Pos	Description	Dimension	Overall Diameter	Remarks
1.	Tin plated copper conductor insulation of FEP	20 AWG	Copper 0.96 Insulation 1.47	19 x 0.2
2.	Tin plated copper drain wire	20 AWG	0.96	19 x 0.2
3.	Braided screen of tin plated copper wire	16 x 6 x 0.127	3.3.8	Optimised: 85% min
4.	Jacket of FEP, blue	Thickness 0.35mm	4.5	Tube-Extruded

Technical Data of Cable		
Technical Data	Values at 20°C	Unit
Conductor Resistance	34	Ω / km
Insulation Resistance	>5000	MΩ x km
Test Voltage	3	KV DC
Voltage Rating	600/1000	V AC
Capacitance	Core-core: 85	pF / m
Inductance	0.54	1kHz μH/m
L/R Ratio	7.94	μH/0
Weight	40	g / m
Temperature Rating	-80 / +200	°C

ConnectionDetailsof CableAssembly

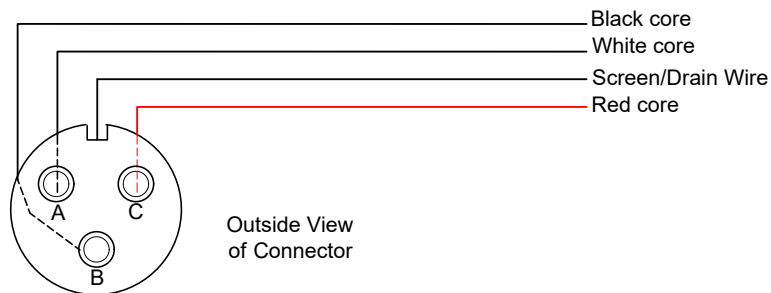


Environment Specification of Cable Assembly
Maximum operating temperature of 150°C with high levels of resistance to chemical attack.

Materials of Cable: High Temperature FEP Cable				
Pos	Description	Dimension	Overall Diameter	Remarks
1.	Tin plated copper conductor insulation of FEP	20 AWG	Copper 0.96 Insulation 1.47	19 x 0.2
2.	Tin plated copper drain wire	20 AWG	0.96	19 x 0.2
3.	Braided screen of tin plated copper wire	16 x 6 x 0.127	3.3.8	Optimised: 85% min
4.	Jacket of FEP, blue	Thickness 0.35mm	4.5	Tube-Extruded

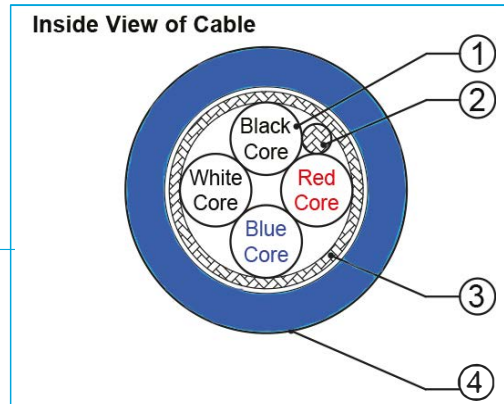
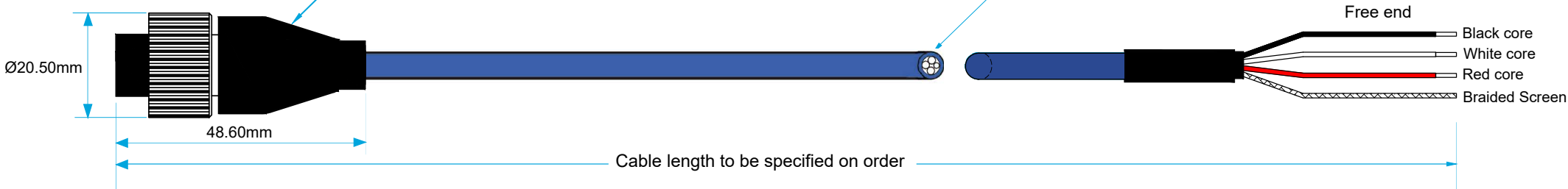
Technical Data of Cable		
Technical Data	Values at 20°C	Unit
Conductor Resistance	34	Ω / km
Insulation Resistance	>5000	MΩ x km
Test Voltage	3	KV DC
Voltage Rating	600/1000	V AC
Capacitance	Core-core: 85	pF / m
Inductance	0.54	1kHz μH/m
L/R Ratio	7.94	μH/0
Weight	40	g / m
Temperature Rating	-80 / +200	°C

Connection Details of Cable Assembly



**3 Pin MS Overmoulded
Straight Socket Connector
with 316 Stainless Steel
Locking Ring**

Connector sealed to IP68 only when
connected to the accelerometer.



Materials of Cable: HFFR Cable

Pos	Description	Dimension	Overall Diameter	Remarks
1.	Tin plated copper conductor Halogen free, flame retardant insulation	22 AWG t = 0.20	0.96 1.16	19 x 0.16
2.	Tin plated copper drain wire	26 AWG	0.48	19 x 0.10
3.	Wrapped aluminium / polyester foil screen		3.00	
4.	Cross-linked, halogen free flame retardant jacket, Blue	t = 1.15	5.30	jacket colour should approximate RAL 5019 pressure-extruded smooth and round

How To Order

Product Prefix
HS - Hansford Sensors

Product Series
AC - Cable Assemblies

H S A C 7 7 9 X X

Cable Number

Cable Length

*Available in multiples of 5. For other lengths please consult our sales office.

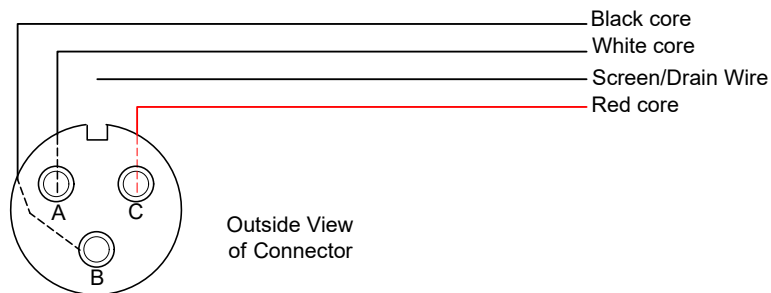
Technical Data of Cable

Technical Data	Values at 20°C	Unit
Conductor Resistance	53.1	Ω / km
Insulation Resistance	>600	MΩ x km
Test Voltage	3	KV DC
Voltage Rating	600/1000	V AC
Capacitance	Core - op core: 139 Core - ad core: 145 Core - screen: 240	pF / m
AC loop Inductance	0.547	mH / km
L/R Ratio	60 Hz: 0.005	ms (2 adjacent cores)
Weight	43	g / m
Temperature Rating	-40 / +125	°C

Environment Specification of Cable Assembly

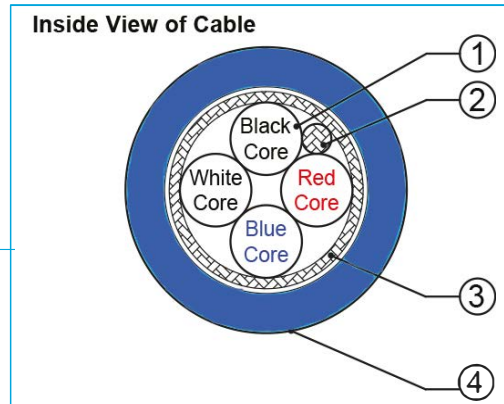
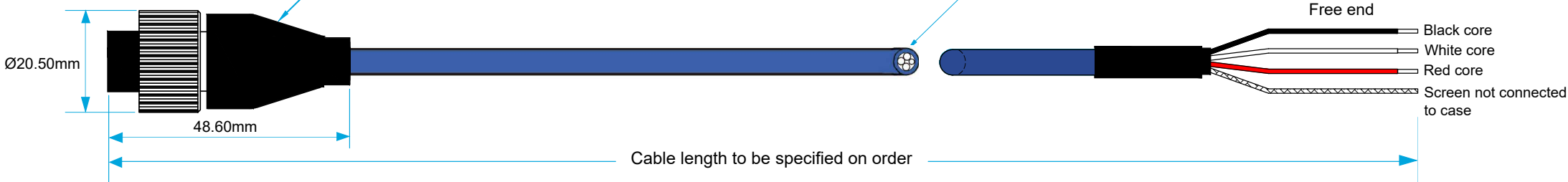
Maximum operating temperature of 150°C with high levels of resistance to chemical attack.

Connection Details of Cable Assembly



**3 Pin MS Overmoulded
Straight Socket Connector
with 316 Stainless Steel
Locking Ring**

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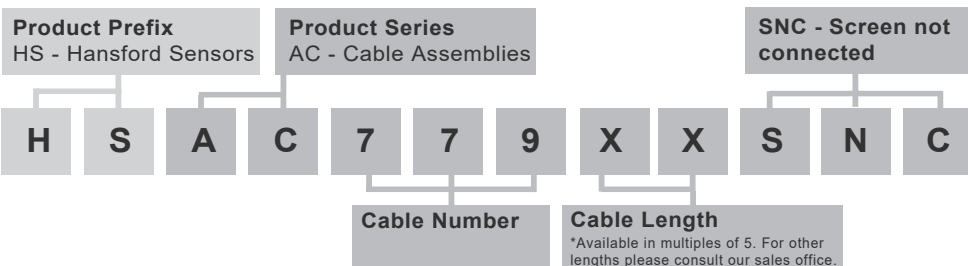
Materials of Cable: HFFR Cable

Pos	Description	Dimension	Overall Diameter	Remarks
1.	Tin plated copper conductor Halogen free, flame retardant insulation	22 AWG t = 0.20	0.96 1.16	19 x 0.16
2.	Tin plated copper drain wire	26 AWG	0.48	19 x 0.10
3.	Wrapped aluminium / polyester foil screen		3.00	
4.	Cross-linked, halogen free flame retardant jacket, Blue	t = 1.15	5.30	jacket colour should approximate RAL 5019 pressure-extruded smooth and round

Technical Data of Cable

Technical Data	Values at 20°C	Unit
Conductor Resistance	53.1	Ω / km
Insulation Resistance	>600	MΩ x km
Test Voltage	3	KV DC
Voltage Rating	600/1000	V AC
Capacitance	Core - op core: 139 Core - ad core: 145 Core - screen: 240	pF / m
AC loop Inductance	0.547	mH / km
L/R Ratio	60 Hz: 0.005	ms (2 adjacent cores)
Weight	43	g / m
Temperature Rating	-40 / +125	°C

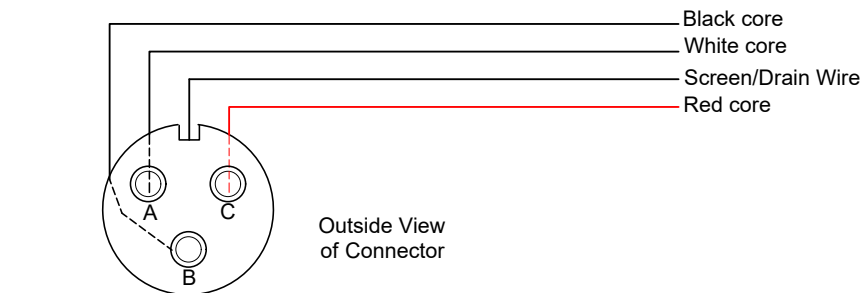
How To Order



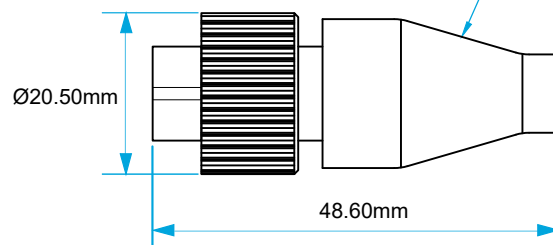
Environment Specification of Cable Assembly

Maximum operating temperature of 150°C with high levels of resistance to chemical attack.

Connection Details of Cable Assembly

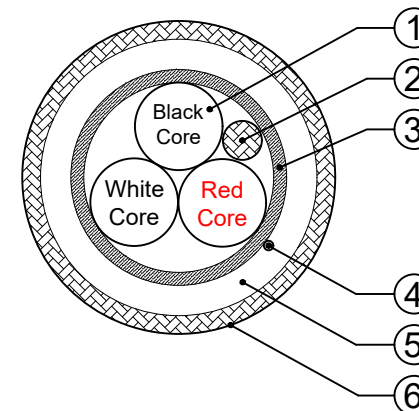


3 Pin MS Overmoulded Straight Socket Connector with 316 Stainless Steel Locking Ring



Connector sealed to IP68 only when connected to the accelerometer.

Inside View of Cable



Environment Specification of Cable Assembly

Maximum operating temperature of 150°C with high levels of resistance to chemical attack.

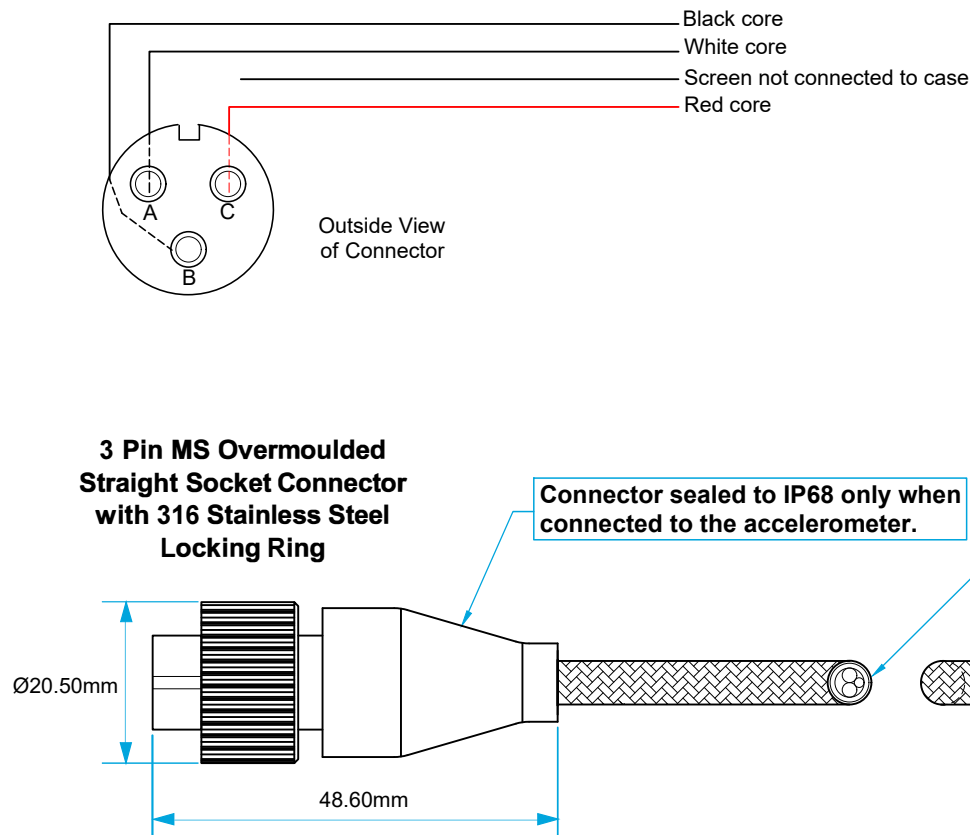
Materials of Cable: C01-003 Overbraided cable				
Pos	Description	Dimension	Overall Diameter	Remarks
1.	Tin plated copper conductor Fluoropolymer insulation	20 AWG t = 0.255	0.76 1.27	19 x 0.16
2.	Drain wire of tin plated copper	24 AWG	0.60	7 x 0.20
3.	Wrapped aluminium polyester foil screen		3.00	Coverage: 100%
4.	Aramid tear-thread			
5.	Fluoropolymer jacket, Red	0.35	3.70	tube-extruded
6.	Braided armour of stainless steel wire	16 x 7 x 0.12	4.20 min: 4.00 max: 4.40	Nom. Coverage: 95%

Free end

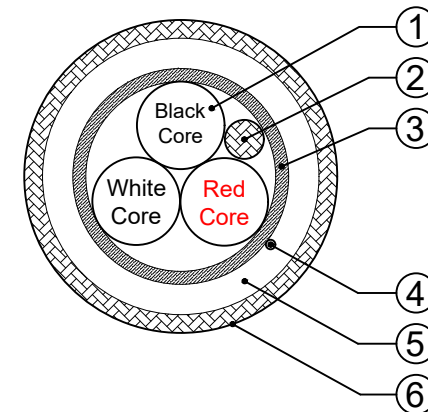
Black core
White core
Red core
Screen

Technical Data of Cable		
Technical Data	Values at 20°C	Unit
Conductor resistance	54,8	Ω / km
Insulation resistance	>1500	MΩ x Km
Test voltage	3	KV DC
Voltage rating	600 / 1000	V AC
Capacitance	Core-core: 76	pF / km
	Core-screen: 137	
Impedance	Core-core: 61	Ω
	Core-screen: 33	
Radiation tolerance	10 E4	Gy
Weight	42	g / m
Temperature rating	-65/+150	°C

Connection Details of Cable Assembly



Inside View of Cable



Environment Specification of Cable Assembly

Maximum operating temperature of 150°C with high levels of resistance to chemical attack.

Materials of Cable: C01-003 Overbraided cable				
Pos	Description	Dimension	Overall Diameter	Remarks
1.	Tin plated copper conductor Fluoropolymer insulation	20 AWG t = 0.255	0.76 1.27	19 x 0.16
2.	Drain wire of tin plated copper	24 AWG	0.60	7 x 0.20
3.	Wrapped aluminium polyester foil screen		3.00	Coverage: 100%
4.	Aramid tear-thread			
5.	Fluoropolymer jacket, Red	0.35	3.70	tube-extruded
6.	Braided armour of stainless steel wire	16 x 7 x 0.12	4.20 min: 4.00 max: 4.40	Nom. Coverage: 95%

Free end

Black core
White core
Red core
Screen

Technical Data of Cable		
Technical Data	Values at 20°C	Unit
Conductor resistance	54,8	Ω / km
Insulation resistance	>1500	MΩ x Km
Test voltage	3	KV DC
Voltage rating	600 / 1000	V AC
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Impedance	Core-core: 61	Ω
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Radiation tolerance	10 E4	Gy
Weight	42	g / m
Temperature rating	-65/+150	°C