



CALEDONIAN CABLES LIMITED

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Test Report

Item 1			
SWA Armored Profibus DP Cable: Part No.: RE-02Y(St)CHGSWAH1P22AWG 1x2x22AWG TC/FPE/OS/TCWB/LSZH/GSWA/LSZH		Applicable Standards: IEC61158	
Test Item		Standard Requirement	Test Results
1. Physical Characteristics			
1.1	No. of Pair	1 Pair	1 Pair
1.2	Conductor Material	Tinned copper wire	Complied
1.3	Conductor Construction	22AWG (7/0.254mm)	22AWG (7/0.254mm)
1.4	Insulation Material	Foam PE	Complied
1.5	Insulation Colour	Black & White	Complied
1.6	Shielding 1	Al-foil screen with 0.30mm ² tinned copper drain wire	Complied
1.7	Shielding 2	Tinned copper wire braid	Complied
1.8	Inner Sheath	LSZH	Complied
1.9	Inner Sheath Color	Violet	Complied
1.10	Armor	Galvanized steel wire (GSWA)	Complied
1.11	Outer Sheath	LSZH	Complied
1.12	Outer Sheath Color	Violet	Complied
1.13	Overall Diameter	13.5+/-2.0 mm	14.5mm; 14.8mm; 15.2mm
2. Electrical Performance			
2.1	Max. Conductor Resistance @ 20°C	55 Ω/km	49.6 Ω/km
2.2	Testing Voltage	1KVDC/5min.	Pass
2.3	Characteristic Impedance	150 Ω ± 15Ω	143 Ω
2.4	Nominal Mutual Capacitance @ 1KHz	29.5 pF/m	30.2 pF/m
2.5	Max. Attenuation	0.2MHz: 1.10 dB/100m 4MHz: 2.65 dB/100m 16MHz: 5.40 dB/100m	0.2MHz: 1.09 dB/100m 4MHz: 2.60 dB/100m 16MHz: 5.10 dB/100m
3. Visual Inspection			
3.1	Uniformity of Insulation Thickness	Uniform	Complied
3.2	Cable Marking	Black in Ink	Complied
3.3	Marking Details	CALEDONIAN CABLE PROFIBUS DP CABLE RE-02Y(St)CHGSWAH1P22AWG 1X2X22AWG TC/FPE/OS/TCWB/LSZH/GSWA/LSZH POA4792 YR2024 XXXXM	
3.4	Packaging Length	1000m/drum x 2	1000m/drum + 1060m/drum
Conclusion: Pass. The test items are all up to the standard or technical requirements.			
Tested By:	Diggle	Approved By:	Yang
Testing Date:	2024-2-1		