

Technical Document  
Alternative to Belden 9841  
1pair 24awg LSF White

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Part Number: 429841E-WHT

Description: Alternative to Belden 9841 1pair  
24awg Overall Foil Screened & Braid LSF White



**Product Construction**

Alternative to Belden	:	9841
Conductor Material	:	Tinned Copper, Stranded
Conductor Stranding	:	24awg, 7/0.20mm
Insulation Material	:	Polyethylene (PE)
Number of Pairs	:	1
Core Colours	:	Blue with a White Ring; White with a Blue Ring
Screening 1	:	Overall Aluminium Foil
Screening 1 Coverage	:	>100%
Drain Wire	:	Tinned Copper, 24awg Stranded
Screening 2	:	Overall Tinned Copper Wire Braid
Screening 2 Coverage	:	>90% ± 3
Sheath Material	:	Low Smoke & Fume (LSF)
Sheath Colour	:	White



**Mechanical Characteristics**

Overall Diameter	:	5.8mm ± 0.20mm
Temperature Range	Fixed	-20°C to +70°C
	Flexing	0°C to +70°C
Bend Radius	:	15 x Overall Diameter
Weight	:	54 kg/km

**Electrical Characteristics**

Conductor DC Resistance @20°C	:	≤ 90.9 Ω/km
Capacitance	Core to Core	42 pF/m ± 15
	Core to Screen	75 pF/m ± 20
Impedance	:	120 Ω ± 15
Insulation Resistance @ 20°C	:	≥ 5000 MΩ.KM
Voltage Rating	:	300/300V

**Certifications & Standards**

Flame Retardancy	:	BS EN 60332-1-2
Suitable Protocol	:	RS 232, 422 & 485
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
CE CPR Classification	:	Eca to EN 50575:2014+A1:2016

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