



### CONTACT

Market information  
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### Aeronautic Engine and High Temperature Applications

Fire Resistant - Jacketed, Shielded Twisted pair

### STANDARDS

Product Nexans specification

CORE - EN 2346-005N 004 (DWA22) Series

#### CONDUCTOR

Stranded AWG 22 conductor  
 Nickel clad copper alloy

#### INSULATION

Fireproof insulation  
 Polyimide tape  
 PTFE tape

#### ASSEMBLY

2 x EN 2346-005N 004 cores twisted

#### SEPARATOR

High temperature glass braid

#### SHIELD

Nickel plated copper braid  
 Coverage > 75%

#### JACKET

PTFE Tapes

## CHARACTERISTICS

### Electrical characteristics

Operating voltage 600 V

### Usage characteristics

Operating temperature, range -65 ... 260 °C

Fire resistant -

Oil resistance Very good resistance to aircraft fluids



Operating temp.  
 -65 ... 260 °C



Fire resistant  
 -



Oil resistance  
 Very good resistance to aircraft fluids

## ELECTRICAL PERFORMANCES

Operating frequency	: up to 2000 Hz
Minimum fire resistance within 15 minutes	
Cores to core	: 10 k $\Omega$
Cores to shield	: 10 k $\Omega$
Nominal linear capacitance	
Core to core	: 65 pF/m
Core to shield	: 115 pF/m
Cores to shield	: 200 pF/m
Maximum transfert impedance	
From 100 kHz to 10 MHz	: 40 m $\Omega$ /m
From 10 MHz to 100 MHz	: 4 x f in m $\Omega$ /m
	<i>With f = frequency in MHz</i>
Indicative values mutual inductance	
At 0.05 MHz	: 0.82 $\mu$ H/m
At 0.1 MHz	: 0.76 $\mu$ H/m
At 0.2 MHz	: 0.68 $\mu$ H/m
At 0.5 MHz	: 0.60 $\mu$ H/m
At 1 MHz	: 0.58 $\mu$ H/m
At 2 MHz	: 0.56 $\mu$ H/m
At 5 MHz	: 0.53 $\mu$ H/m
At 10 MHz	: 0.50 $\mu$ H/m
At 20 MHz	: 0.49 $\mu$ H/m

## IDENTIFICATION

Colour of cores	: White with red stripe + White with blue stripe
Marking colour	: Green
Marking text	: " EN DW A 22 FRF ** " (FRF) = Manufacturer (France) (**) = Year of manufacturing
Colour of jacket	: Brown



Operating temp.  
-65 ... 260 °C



Fire resistant  
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Oil resistance  
Very good resistance to aircraft fluids