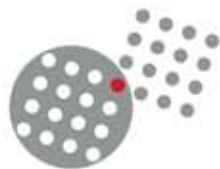


Railway connectors

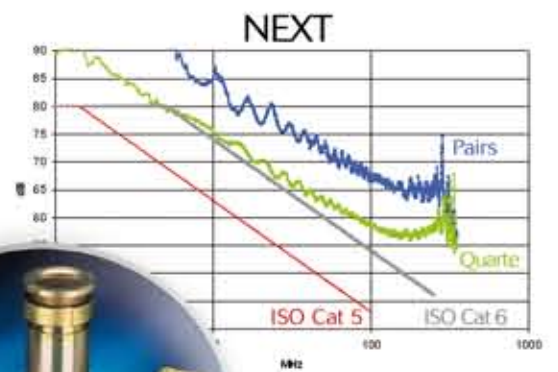
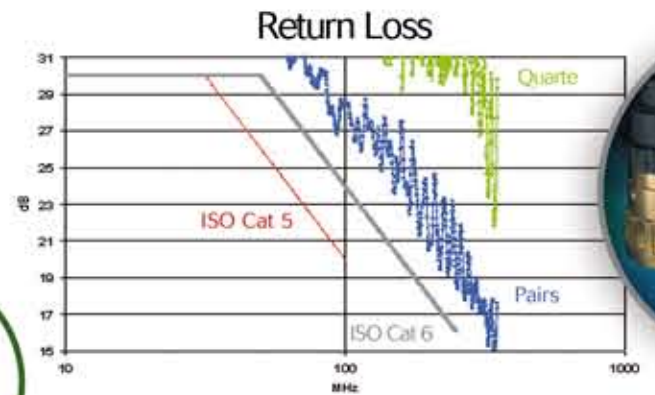


Fast Ethernet 100 Mbits/s



SOURIAU
Connection Technology

Signaling & ATC
 838 / UTO / UTO with
 Quadrax / UTO with RJ45 &
 microFX



Conform to Cat5

Ethernet compatible connectors for Railway applications

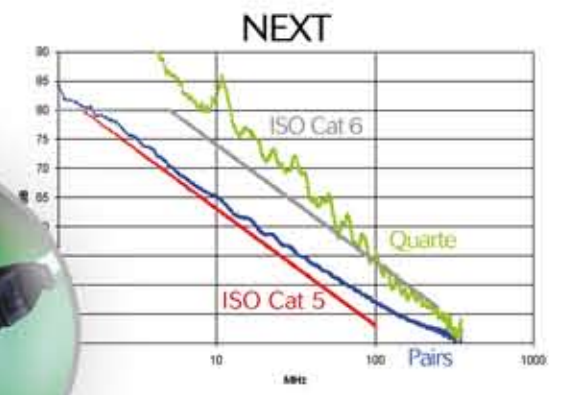


Conform to Cat5

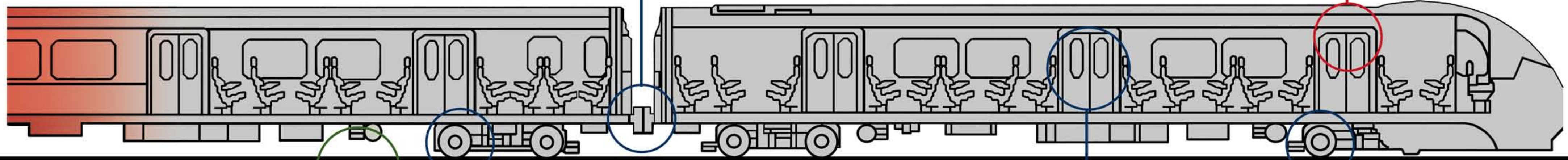
Coaches interconnection
 838



Conform to Cat5



Display systems
 SMS



microFX

Beacon / antenna / speed
 control system
 838 / UTO / UTO with
 Quadrax / UTO with RJ45 &
 microFX

Conform to Cat5

UTO RJ45



UTO with Quadrax

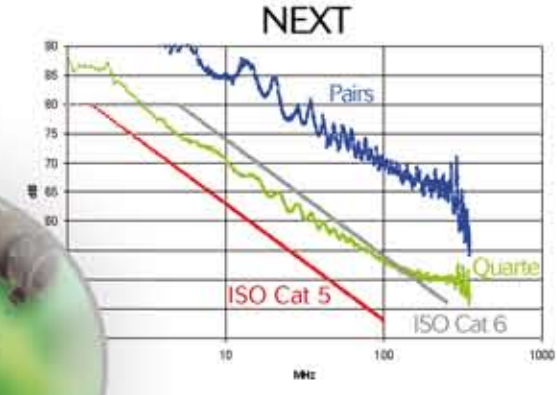
Conform to Cat5



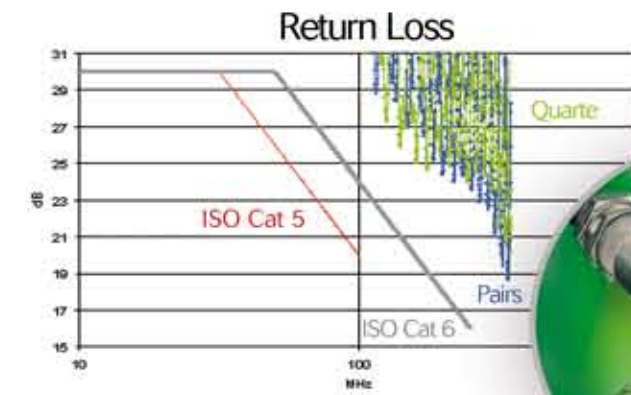
Bogie equipment
 838 / VGE1



Conform to Cat5



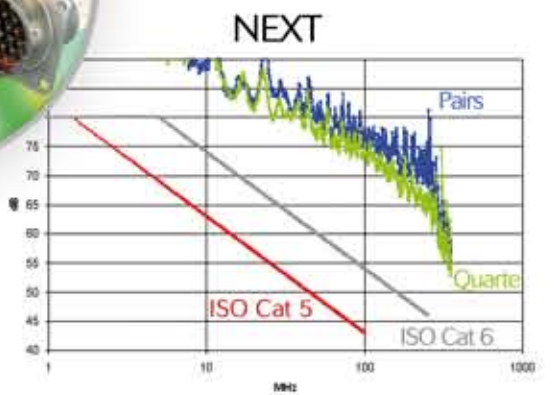
Door systems
 SMS / VGE1 / UTO



Conform to Cat5



Traction equipment
 SMS / VGE1



838



SOURIAU's Ethernet solutions

SOURIAU's Ethernet solutions meet the **ISO / IEC 11801** standard in which rules and characteristics are defined:

- a. Classes according to the performances of the channel
- b. Characteristics of components to assure the link

Class	Channel performances	Components	for applications
D	100 Mhz	Cat 5	100 Base TX / 1000 Base TX
E	250 Mhz	Cat 6	
F	600 Mhz	Cat 7	

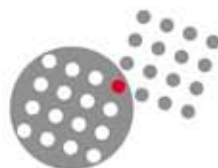
Constraints are also defined in the standard. Especially regarding connectors, NEXT and Return Loss measurements were focused.

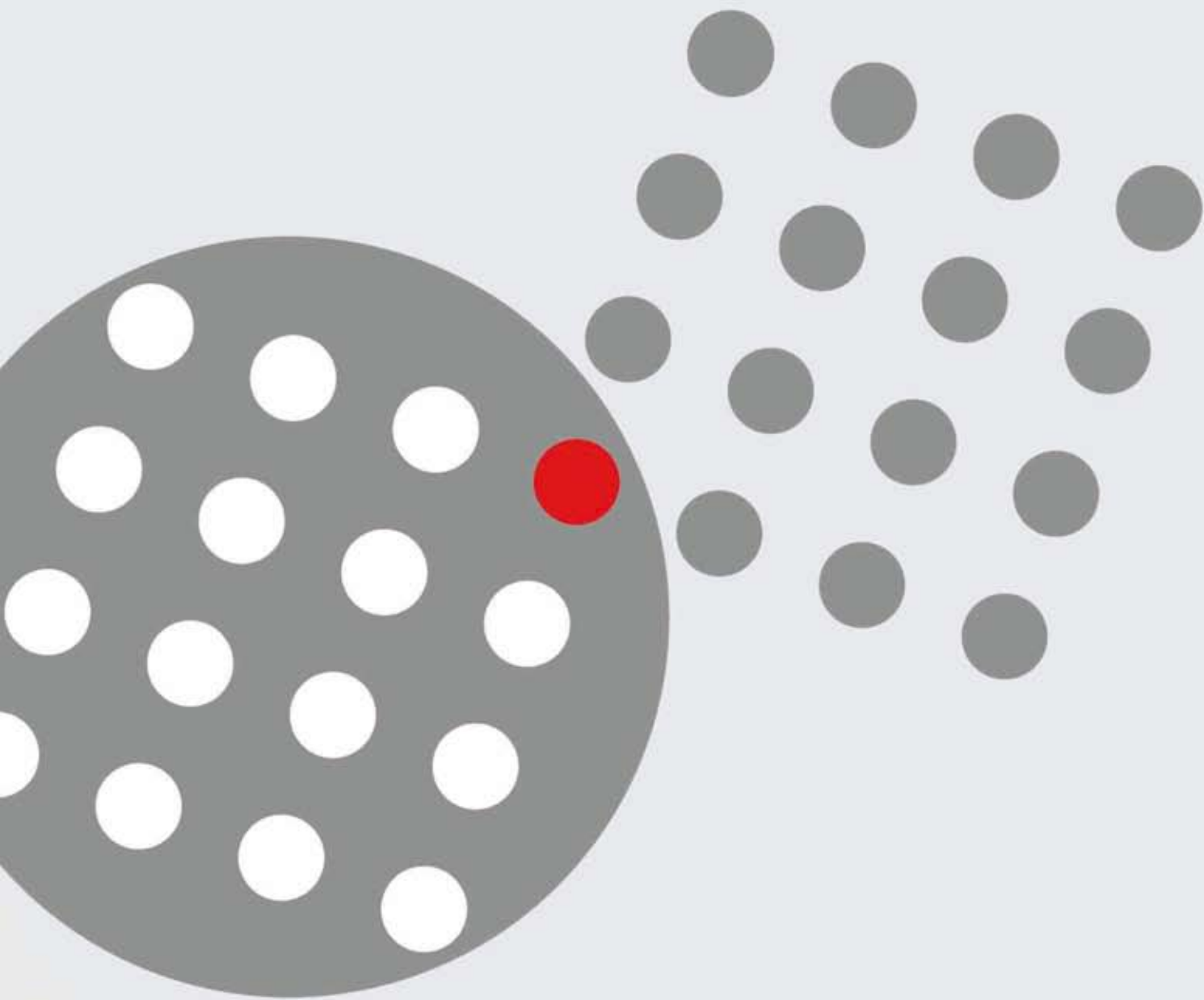
What are NEXT and Return Loss ?

NEXT (Near End Crosstalk): this is the amount of coupling loss (in dB) occurring when a signal generated at the near end of one cable pair is received as crosstalk at the near end of another cable pair.

Return Loss: this is the measurement of reflections due to variations in the cable construction and in crimps and connectors, which could cause transmission errors.

SOURIAU has developed & approved specific cabling configurations that meet **100 Mbps / CAT5 Ethernet** in each product range.





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