

Guidance to NFPA compliancy of RF railway cables

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Dear customer

HUBER+SUHNER are testing all our RF railway cable portfolio against EN 45545-2, the relevant European Norm for railway cables. Furthermore, we are stating compliancy against NFPA-130 based on an engineering analysis from TÜV*. Since this analysis was primarily done for antennas, some guidance is given in this document about how to read the respective documents for RF cables.

Some of the HUBER+SUHNER antennas include RF cable pigtails. Therefore, RF cables were also analysed by TÜV. The relevant information for RF cables can be found on pages 7 and 10:

Table 1: Description of score

Score	Description
XX	EN 45545 is more precise or demanding
X	NFPA 130 and EN 45545 standards are equivalent
0	NFPA 130 is more precise or demanding
N.C.	This requirement is not covered in EN 45454

EL1A EL1B	Cables for exterior and for interior	R15 R16	EN 60332-1-2: min in mm EN 60332-3-24 for $d \geq 12$ mm EN 50305 §9.1.1: for $6 < d < 12$ EN 50305 for $d \leq 6$ mm EN 61034-2 EN 50305, CIT Cable	NFPA 262 or FT4/IEEE 1202 and ANSI/VUL 1685	wire and cable	XX
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In case of any further questions, please get in touch with the nearest HUBER+SUHNER sales representative.

* The engineering analysis is provided with the other relevant documentation/reports and is available from our railway customer portal:
<https://railway-data.hubersuhner.com/>