









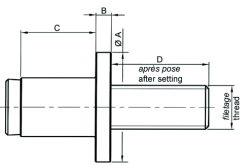


RAIL BOND

► ELECTRICAL CONNECTION TO THE RAIL



THREAD	M6	M6	M10	M10	M10
DRILLING DIAMETER (mm)	Ø 8 > 8.2	Ø 8.5 > 8.7	Ø 13.5 > 13.7	Ø 13.5 > 13.7	Ø 13.5 > 13.7
RAIL WEB THICKNESS	17 mm max.	17 mm max.	17 mm max.	17 mm max.	15 mm min.
PACKAGING BOX OF 10 BONDS + FASTENING					
BOND PART No.	30996	30989	77911	81974	80913
APPROVAL			SNCF: 7.952.0882	SNCF: 7.952.1513	SNCF: 7.952.0900
BUSHING MATERIAL	Tin-plated copper	Tin-plated copper	Tin-plated copper	Tin-plated copper	Tin-plated copper
BUSHING LENGTH	17 mm	17 mm	17 mm	15.5 mm	6.5 mm
HARDWARE					
CONTACT SURFACE	427 mm ²	453 mm ²	721 mm ²	640 mm ²	275 mm ²
REAMER DRILL ADAPTER	30776	80312 86070	86225 86859	86225 86859	86225 86859
SETTING TOOL	PH1IN	PH1IN	PH3IN	PH3IN	PH3IN
TORQUE WRENCH + SOCKET	80997 +OFACR10	80997 +OFACR10	80967 +OFACS16H	80967 +OFACS16H	80967 +OFACS16H
TORQUE VALUE	10 Nm	10 Nm	40 Nm	40 Nm	40 Nm
	DIMENSIONS (mm)	Ø A	25	25	25
		B	3.5	3.5	3.5
	C	17	17	15.5	6.5
	D	23	23	23	23
	WEIGHT		51 gr	46 gr	35 gr
ELECTRICAL SPECIFICATIONS	TOTAL ELECTRICAL RESISTANCE		12 µΩ	12 µΩ	12 µΩ
	ELECTRICAL RESISTANCE OF THE BOND – RAIL CONTACT		4 µΩ	5 µΩ	6 µΩ
ELECTRICAL TESTS	ABILITY TO WITHSTAND HEATING		Current between 1000 & 1500 A for 50 minutes (train passing 10 times).		
	SHORT-CIRCUIT WITHSTAND STRENGTH		3 short-circuit tests at 7000 A 0.2s		
	CORROSION RESISTANCE		300 hours in salt mist (NFX41002)		
OTHER TESTS	ABILITY TO WITHSTAND VIBRATION		Acceleration from 7 to 16 g along 3 axes, 8 hours per axis.		
	RESISTANCE TO THERMAL SHOCK		-30°C / +70°C		
	RESISTANCE TO PRESSURE (coloured water)		No leakage before: 250 Bar.		
APPLICATION EXAMPLE		Traction current return/Signalling	AD connection	Double connection	