

product specification

High immunity extension cables

Application : high-immunity extension cables have been developed for the transmission of low level impulsional signals delivered by source range neutron detectors under environmental conditions which do not allow the use of organic insulated cables. Such extension cables are equipped with watertight HN connectors and offer a high level resistance to radiations and electromagnetic parasitic signals.

Unless otherwise stated, all characteristics are given at 20°C

Mechanical and physical characteristics

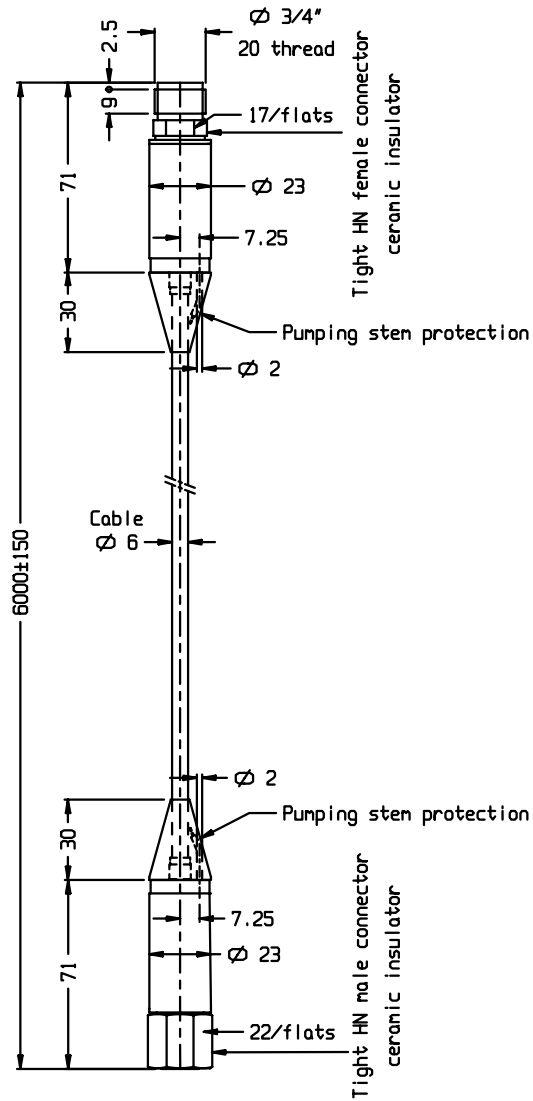
Cable :		
type		1 Zs FCAc 60
external diameter	6	mm
mineral insulator		MgO
curvature radius	min 60	mm
electrical insulation by "Scotch 27" (optional)		50% overlapping
Connectors :		
type		male or female, watertight HN
screwing	6 flat screw	
external watertightness ring		organic, nuclear quality
screwing torque :		
recommanded	0.9	m.daN
maximum	1.1	m.daN
Operating temperature :		
for short times	170	°C
for long times	130	°C
Overall length :		
maximum (request when ordering)	15	m

Electrical characteristics

Cable :		
characteristic impedance	50	Ω
capacitance	170	pF/m
line resistance	0.4	Ω/m
attenuation	0.34	dB/m
Extension :		
transfer impedance (20kHz-100MHz pass band)	< 10 ⁵	Ω/m
insulating resistance at 900 V :	min 10 ¹²	Ω
breakdown resistance	min 1000	Veff

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EXT-HN/MF-6-6



all dimensions in mm unless otherwise indicated