

TECHNICAL INFORMATION

International Protection, EN 60529

1. Code		2. Code	Penetration of water											
Protection against human access to hazardous parts	Protection of equipment against penetration of solid foreign objects		IP x0	IP x1	IP x2	IP x3	IP x4	IP x5	IP x6	IP x7	IP x8			
Non-protected	Non-protected	IP 0x	IP 00											
Protected against access to hazardous parts with the back of the hand	Protected against solid foreign objects larger in diameter than 50 mm	IP 1x	IP 10	IP 11	IP 12									
Protected against access to hazardous parts with a finger	Protected against solid foreign object larger in diameter than 12,5 mm	IP 2x	IP 20	IP 21	IP 22	IP 23								
Protected against access to hazardous parts with a tool larger in diameter than 25 mm	Protected against solid foreign objects larger in diameter than 2,5 mm	IP 3x	IP 30	IP 31	IP 32	IP 33	IP 34							
Protected against access to hazardous parts with a wire larger in diameter than 1,0 mm	Protected against solid foreign objects larger in diameter than 1 mm	IP 4x	IP 40	IP 41	IP 42	IP 43	IP 44							
Protected against access to hazardous parts with a wire larger in diameter than 1,0 mm	Prevents penetration of dust sufficient to cause damage inside the equipment	IP 5x	IP 50				IP 54	IP 55						
Protected against access to hazardous parts with a wire larger in diameter than 1,0 mm	Dust proof	IP 6x	IP 60					IP 65	IP 66	IP 67	IP 68			

Product Material Abbreviations

CR	Chloroprene rubber
FKM	Fluorelastomer
Ms	Nickel plated brass
NBR	Buna-N
PA	Polyamide
PE	Polyethylene
PP	Polypropylene
PVC	Polyvinylchloride
PVDF	Polyvinylidendifluoride
SB	Styrene Butadiene
VMQ	Silicone

Installation Instructions

Multi hole inserts: Cable diameter should not be less than 20 % of hole diameter and the difference between cable diameter and hole should never exceed 1 mm (.04").

Flat cable inserts: The clamping range of the cable used may not deviate from the manufacturer-specified minimum values by more than 1 mm in length and 1 mm in width. The geometries of the cable and the insert hole must be compatible (semicircular or straight at the sides).