

Hirose
circular connectors





Circular connectors





Avnet Abacus offers a wide portfolio of circular connectors from Hirose. Designed to handle a range of harsh environments, these connectors provide highly reliable, robust and space saving coupling for a broad range of applications across consumer electronics, medical, industrial and automotive industries.

For more information and to download datasheets, visit avnet-abacus.eu/hirose-circular-connectors

Series	HR30	HR10	HR10A/G	LF
				
Shell size (mm)	6, 7, 8	7, 10, 13	7, 10, 13	7, 10, 13
Plug	Solder/crimp	Solder	Solder/crimp	Solder
Receptacle	Solder/crimp/dip	Solder/PCB	Solder/PCB/crimp	Solder
Jack	Solder/crimp	Solder	Solder/crimp	Solder
Contact plating	Gold	Gold	Gold/silver	Gold
Locking style	Push-pull	Screw, push-on	Push-pull	Bayonet
Accessory	-	Cap	Cap	-
Number of contacts	3, 6, 10, 12	4, 5, 6, 10, 12, 20	4, 5, 6, 10, 12, 20	3, 4, 6, 11, 12, 20
Shell construction	Plastic	Metal	Metal	Metal
Current rating (A)	5A for 3 pos / 2A for other positions	2	2	2, 5, 10
Rated voltage	AC30, 100V, DC42, 140V	AC100, 150V, DC140, 200V	AC150V, DC200V	AC30, 125V, DC42, 125, 175V
Notes	IP68 waterproof, small size, mating guide keys	IP67 waterproof, terminating jig available	HR10G is a grounded receptacle or jack for shielded applications	IP68 waterproof, EMI shielding



Series	HR11	H/MS	HR25A	HR22
				
Shell size (mm)	9	10, 18, 20, 22, 24	7, 9	12
Plug	Solder	Solder	Solder/PCB/crimp	Solder/crimp
Receptacle	Solder	Solder	Solder/PCB/crimp	Solder/crimp
Jack	Solder	None	Solder/PCB/crimp	Solder/crimp
Contact plating	Silver	Silver	Gold	Silver
Locking style	Bayonet	Screw	Push-pull	Screw
Accessory	-	-	-	-
Number of contacts	4, 6	2, 3, 4, 7, 8, 17, 19	4, 6, 8, 12, 16, 20	20
Shell construction	Metal	Metal	Metal	Metal
Current rating (A)	2	13, 23, 46	1	2
Rated voltage	AC100V, DC140V	AC200, 250, 500V, DC200, 250, 500, 700V	AC30V, DC42V	AC100V, DC140V
Notes	Five mating guide keys	IP67F and IP68F waterproof, MIL spec. compliant	Supports next generation high speed application using 100 Base TX	IP67 and IP68 waterproof options

Series	HR34B	HR08D	RM	JR
				
Shell size (mm)	12	12	12, 15, 21	13, 16, 21, 25
Plug	Solder/crimp	Solder/crimp	Solder/crimp	Solder/crimp
Receptacle	Solder/PCB	Solder	Solder/crimp/dip	Solder/crimp
Jack	None	N/A	Solder	Solder
Contact plating	Gold	Gold	Silver	Gold/silver
Locking style	Push-on bayonet	Push-on bayonet	Bayonet/screw/quick detachable	Bayonet/screw
Accessory	-	-	-	-
Number of contacts	4, 10	2, 10	2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 31, 40, 55	3, 4, 5, 7, 10, 14, 16, 24, 26
Shell construction	Metal	Metal	Metal	Metal
Current rating (A)	3, 5	3	5, 10	3, 5, 10, 30
Rated voltage	AC200, 400V, DC200, 250, 400V	AC200V, DC250V	AC350, 500, 600V DC490, 700, 840V	AC250, 1000V, DC350, 1400V
Notes	IP68 waterproof, oil-proof, multi-directional cable exit	IP68 waterproof, three mating guide keys, multi-directional cable exit	Waterproof options	JIS C 5432 compliant

Series	JR-W	RM-W	HA	HR41A
				
Shell size (mm)	13, 16, 21, 25	15, 21, 31	16	17
Plug	Solder/crimp	Solder	Solder	Crimp
Receptacle	Solder/crimp	Solder	Solder/dip	Crimp
Jack	None	None	Solder	Crimp
Contact plating	Silver	Gold/silver	Gold/silver	Gold
Locking style	Screw	Screw	Latch-lock	Bayonet
Accessory	-	-	-	-
Number of contacts	3, 4, 5, 7, 10, 16, 24	2, 3, 4, 8, 10, 12, 15, 20, 31, 40, 55	3, 4, 5	3, 5
Shell construction	Metal	Metal	Metal	Plastic
Current rating (A)	3, 5, 10, 15, 30	10	15	13
Rated voltage	AC100, 300V, DC140, 420V	AC350, 500, 600V DC490, 700, 840V	AC130V, DC180V	AC/DC1000V
Notes	IP67 and IP68 waterproof, corrosion resistant	IP67 and IP68 waterproof, multi- directional cable exit	For audio equipment (microphone, others)	IP67 and IP68 waterproof, lightning surge protection

Series	HR43	HR41	EM35-W	EM52M
				
Shell size (mm)	21	25	35	52
Plug	Crimp	Crimp	Crimp	Crimp
Receptacle	-	Crimp	Crimp	Crimp
Jack	Crimp	Crimp	Crimp	Crimp
Contact plating	Gold	Gold	Tin	Silver
Locking style	Bayonet	Bayonet	Bayonet	Push-on bayonet
Accessory	-	-	-	-
Number of contacts	3	3, 5	4 (3 phase + 1 GND)	4 (3 phase + 1 GND)
Shell construction	Alloy metal shell	Plastic	Metal	Plastic
Current rating (A)	20	24	50	140
Rated voltage	AC600V	AC/DC1000V	AC/DC250V	AC600,1000V, DC750, 1000V
Notes	IP67 waterproof, Class 2 standard: IEC 61373 rolling stock equipment shock and vibration test compliant	IP67 and IP68 water- proof, lightning surge protection, UL, TÜV compliant	IP68 waterproof, TÜV compliant, sequential mating	Single-action push-on bayonet, robust & light weight, IP67 waterproof available, finger pro- tect structure, UL, TÜV compliant

Series	EM30M	EM40M
		
Shell size (mm)	30	40
Plug	Crimp	Crimp
Receptacle	Crimp	Crimp
Jack	Crimp	Crimp
Contact plating	Silver	Silver
Locking style	Push-on bayonet	Push-on bayonet
Accessory	-	-
Number of contacts	1	1
Shell construction	Plastic	Plastic
Current rating (A)	Waterproof 175. Non waterproof 200	Waterproof 410. Non waterproof 450
Rated voltage	AC/DC600, 1000V	AC/DC600, 1000V
Notes	Single-action push-on bayonet, robust & light weight, IP67 waterproof available	Single-action push-on bayonet, robust & light weight, IP67 waterproof available

ASK AN EXPERT

Our Europe wide team of product specialists works closely with Hirose to offer you the highest levels of engineering support for your design.

To arrange a visit or to discuss your design requirements, contact this team in your local language or at avnet-abacus.eu/ask-an-expert



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