



ATHD Connection Series

Why ATHD?



1. Streamlined yet ruggedized single pole connection systems are good for power applications with contact sizes 8 and 12.
2. This in-line connection system can eliminate costly and non-repairable splices. ATHD is field installable and field repairable.
3. ATHD can provide higher amperages (+10 amps each) over our competition when the Radsok® terminals are used instead of standard machined or stamped and formed contacts.
4. ATHD is backward compatible to our competition (see the chart on the last page).
5. We offer the system with a size 12 contact to crimp to 16 gage cable when less amperage is needed.
6. ROHS compliant

SPECIFICATIONS

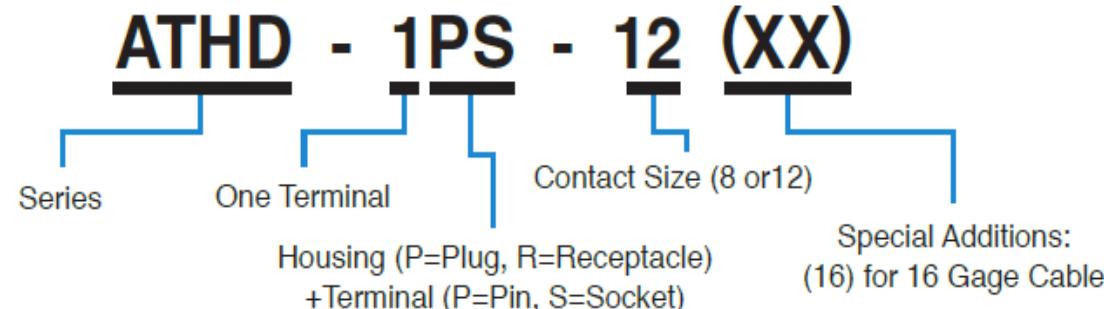
	Size 12 System	Size 8 System
Current Rating	35A with RADSOK®, 25A with standard contacts	70A with RADSOK®, and 60A with standard contacts
Contact Quantity	1	1
Contact Size	12 AWG	8 AWG
Operating Temperature	-55 °C to 125 °C with 150°C upon request	-55 °C to 125 °C with 150°C upon request
Contact Retention	133N	156N
Mating Cycles	100	100
Insulation Resistance	1000MΩ Min. (at 25 °C)	1000MΩ Min. (at 25 °C)
Dielectric Withstanding Voltage	1500 AC (RMS)	1500 AC (RMS)
Moisture Resistance	IP67 (mated)	IP67 (mated)
Operating Voltage	500 VAC	500 VAC
Allowable Wire Size	16-12 AWG	10-8 AWG



PART NUMBERS FOR PLASTIC

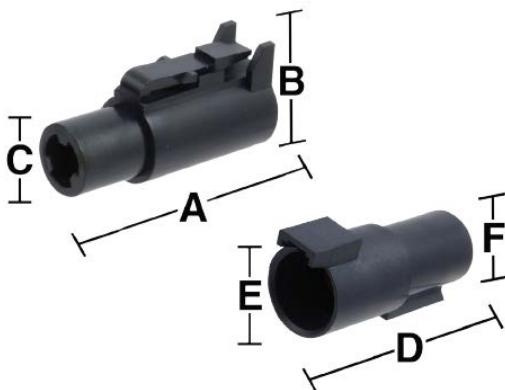
Note: Housing Plug must use the Socket terminal (PS) and Housing

Receptacle must use Pin terminal (RP).



	Size 12 System for 12 gage cable	Size 12 System for 16 gage cable	Size 8 System
Plug	ATHD-1PS-12	ATHD-1PS-12 (16)	ATHD-1PS-8
Receptacle	ATHD-1RP-12	ATHD-1RP-12 (16)	ATHD-1RP-8

CONTACT SIZE	ATHD PLUG			ATHD RECEPTACLE		
	OVERALL LENGTH A	OVERALL HEIGHT B	OVERALL WIDTH C	OVERALL LENGTH D	OVERALL HEIGHT E	OVERALL WIDTH F
12	1.498(38.05)	.771(19.58)	.570(14.48)	2.073(52.65)	.850(21.59)	.710(18.08)
8	1.498(38.05)	.861(21.87)	.660(16.76)	2.073(52.65)	.940(23.88)	.800(20.32)



PART NUMBERS FOR TERMINALS

Amphenol PN	Terminal Description
10-729936-121	Male pin size 12 machined w/ silver plating
10-729936-122	Male pin size 12 machined w/ nickel plating
10-729936-123	Male pin size 12 machined w/ tin plating
10-729936-161	Male pin size 12 machined w/ silver plating to crimp to 16 gage cable
10-729936-162	Male pin size 12 machined w/ nickel plating to crimp to 16 gage cable
10-729936-163	Male pin size 12 machined w/ tin plating to crimp to 16 gage cable
10-730402-121	Female socket size 12 machined w/ silver plating
10-730402-122	Female socket size 12 machined w/ nickel plating
10-730402-123	Female socket size 12 machined w/ tin plating
10-730402-161	Female socket size 12 machined w/ silver plating to crimp to 16 gage cable
10-730402-162	Female socket size 12 machined w/ nickel plating to crimp to 16 gage cable
10-730402-163	Female socket size 12 machined w/ tin plating to crimp to 16 gage cable
10-730742-121	Size 12 Radsok machined socket, silver plating
10-730526-081	Size 8 Radsok machined socket, silver plating
10-729867-081	Male pin size 8 machined w/ silver plating
10-729867-082	Male pin size 8 machined w/ nickel plating
10-729867-083	Male pin size 8 machined w/ tin plating
10-730401-081	Female socket size 8 machined w/ silver plating
10-730401-082	Female socket size 8 machined w/ nickel plating
10-730401-083	Female socket size 8 machined w/ tin plating

Deutsch Cross Reference

Amphenol PN	Description	Deutsch PN Cross
ATHD-1PS-12	Size 12 plug asm	DTHD06-1-12S
ATHD-1RP-12	Size 12 receptacle asm	DTHD04-1-12P
ATHD-1PS-8	Size 8 plug asm	DTHD06-1-8S
ATHD-1RP-8	Size 8 receptacle asm	DTHD04-1-8P



Let us customize it for you:

- High temperature plastic
- Fluro-silicone seals
- Additional colors
- Special mounting fasteners