



# MULTI-A 12 for Wiring and System Cables

**halogen free, flame retardant, outstanding mechanical and electrical characteristics,  
good processability**

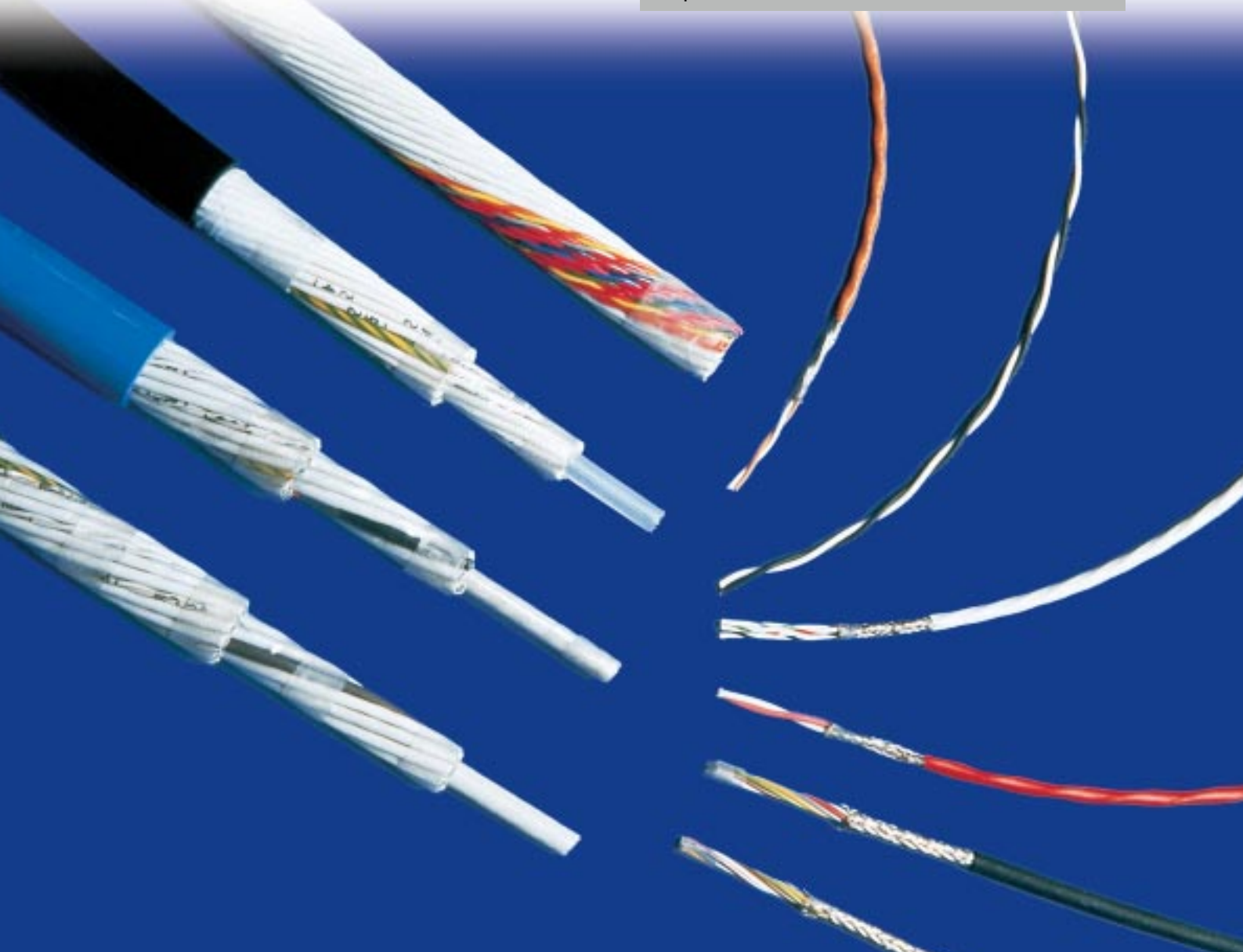
Multi-A 12 wires are especially suitable in applications, where low weight and compact design are required. Construction and dimensions of the AWG sizes are in accordance with MIL-W-81044/12 which allows them to be used with standard MIL-components.

The thin wall insulation of flame retardant PBT features excellent mechanical, electrical and chemical resistance. PBT is halogen free and does not release corrosive and toxic gases in a fire, which prevents appliances from damage.

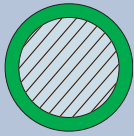
The connecting leads are easy to strip and allow automated, economic processing.

Typical applications: in electrical appliances, in industrial electronics and electronic equipment. Typical designs: single cores, twisted bundles with or without screen as well as with or without sheath; as element of system and hybrid cables or assemblies.

- Temperature range -40°C to +120°C
- Voltage rating 600 V
- Dimensions according to MIL-W-81044/12
- Compact and flexible
- Multicore cable according to customer specification



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Conductor: stranded, tin plated copper (AWG: MIL specification; metric: IEC 60228 class 5)  
Insulation: PBT-FR, various colors

AWG	Cross-section nom.		Conductor construction n x mm Ø	Conductor dia. max. mm	Core dia. mm	R <sub>20</sub> IEC 60228 max. Ω/km	Weight nom. kg/100 m
		mm <sup>2</sup>					
28		0.09	7 x 0.13	0.40	0.76 ± 0.05	225.0	0.10
26		0.15	19 x 0.10	0.51	0.87 ± 0.05	135.5	0.17
24		0.25	19 x 0.13	0.61	1.02 ± 0.05	85.96	0.30
22		0.38	19 x 0.16	0.79	1.19 ± 0.05	53.15	0.43
20		0.60	19 x 0.20	0.99	1.40 ± 0.05	32.42	0.65
18		0.93	19 x 0.25	1.23	1.66 ± 0.05	20.44	0.95
16		1.25	19 x 0.29	1.40	1.83 ± 0.05	15.78	1.30
14		1.93	19 x 0.36	1.64	2.27 ± 0.08	10.04	1.86
12		2.97	37 x 0.32	2.24	2.75 ± 0.08	6.63	2.87
10		4.74	37 x 0.40	2.77	3.53 ± 0.10	4.14	4.76
—		0.5	19 x 0.18	0.91	1.29 ± 0.05	40.1	0.52
—		1.5	37 x 0.22	1.57	2.10 ± 0.05	13.7	1.52
—		2.5	37 x 0.29	1.97	2.55 ± 0.08	8.21	2.37
—		4.0	56 x 0.30	2.50	3.10 ± 0.15	5.09	3.80
—		6.0	84 x 0.30	2.98	3.65 ± 0.15	3.39	5.90

## Technical Specification

Voltage rating 600 V  
 Test voltage 3000 V  
 Temperature range permanently installed: -40°C to +120°C  
 flexible installation: -20°C to +120°C  
 Max. temperature for 24 h +160°C  
 Min. bending radius 3 x D

**HUBER+SUHNER Group is certified according to ISO 9001 and ISO 14001**

### Waiver

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