

# HES CIRCULAR SERIES



## FAMILY BENEFITS

- Interchangeable industry mating interface
- Superior environmental protection
- Designed to outperform competition

## SERIES FEATURES

- 3-rib seal design provides up to 30% higher performance
- Specialized lock finger design to eliminate terminal unseats
- Forward/backward compatibility
- HES terminals provide improved electrical performance
- Validated to J2030

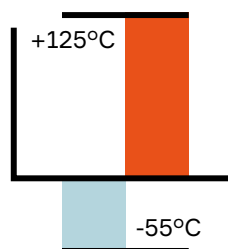


## AVAILABLE CONFIGURATIONS

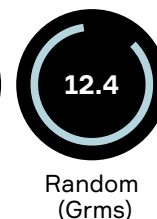
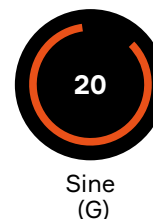
Cavity Count (ways)	19, 21, 23, 29, 31, 47 way
Cavity Configurations	1.0, 1.6, 2.4 mm
Materials	PBT, PA66
Genders	Male & Female



## TEMPERATURE



## VIBRATION



## APPLICATIONS

Cab

Engine compartment

Chassis

See back page for representative part numbers.



## ENVIRONMENTAL IP RATING

(IEC/ISO)

6 / 6k

Dust Proof

X7 / X7

Water Immersion

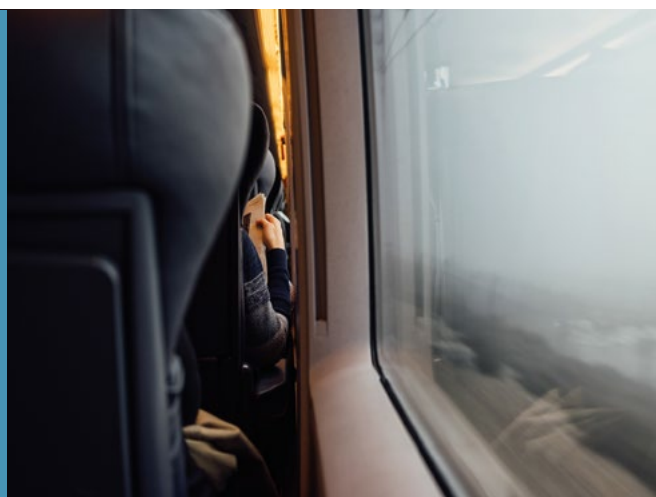
X9 / X9k

High Pressure Stream-Jet

## About Aptiv

Aptiv is a global technology company that develops safer, greener and more connected solutions enabling the future of mobility. Headquartered in Dublin, Aptiv has approximately 150,000 employees and operates 14 technical centers, as well as manufacturing sites and customer support centers in 45 countries.

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## # PART NUMBERS

Cavity count	Blade size (mm)	Gender	Dimensions W x H x D (mm)	Part number	Configuration	Other configurations
19	2.4/1.6	M	47.5 x 50.5 x 45.4	15544333	Thin	Thick, Reverse
19	2.4/1.6	F	49.4 x 49.4 x 42	15544902	Thin	Thick, Reverse
21	2.4/1.6	M	47.5 x 50.5 x 45.4	15544331	Thin	Thick
21	2.4/1.6	F	49.4 x 49.4 x 42	15544899	Thin	Thick
23	1.6	M	47.5 x 50.5 x 45.4	15544329	Thin	Thick
23	1.6	F	49.4 x 49.4 x 42	15544897	Thin	Thick
29	2.4/1.6/1.0	M	47.5 x 50.5 x 45.4	15544327	Thin	Thick
29	2.4/1.6/1.0	F	49.4 x 49.4 x 42	15544895	Thin	Thick
31	1.6	M	47.5 x 50.5 x 45.4	15544326	Thin	Thick, Reverse
31	1.6	F	49.4 x 49.4 x 42	15544894	Thin	Thick, Reverse
47	1.6/1.0	M	47.5 x 50.5 x 45.4	15544324	Thin	-
47	1.6/1.0	F	49.4 x 49.4 x 42	15544892	Thin	-

## # ACCESSORY PART NUMBERS

Size	Accessory	Part number
19	Backshell 180°	13767802
19	Backshell 90°	13767805
22	Backshell 180°	13767803
22	Backshell 90°	13767806
25	Backshell 180°	13667839
25	Backshell 90°	13667840
16 & 20	Cavity seal plug	13756464
12	Cavity seal plug	13756465

## CAVITY CONFIGURATIONS

<b>47 way</b>  5 size 16, 42 size 20 Thin Wall (Blue Seal)	<b>31 way</b>  31 size 16 Thin Wall (Blue Seal) Regular and Heavy Wall (Orange Seal)	<b>29 way</b>  4 size 12 19 size 16 6 size 20 Thin Wall (Blue Seal) Regular and Heavy Wall (Orange Seal)
<b>23 way</b>  23 size 16 Thin Wall (Blue Seal) Regular and Heavy Wall (Orange Seal)	<b>21 way</b>  4 size 12 17 size 16 Thin Wall (Blue Seal) Regular and Heavy Wall (Orange Seal)	<b>19 way</b>  6 size 12 13 size 16 Thin Wall (Blue Seal) Regular and Heavy Wall (Orange Seal)

## COMPATIBLE WITH



Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact a Aptiv representative.

CS-SP8-HES-En0318

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