

YPT

(YAZAKI POWER TERMINAL)

9.5 SERIES



INTRODUCTION

YPT

The 9.5mm Yazaki Power Terminal (YPT 9.5) connector series is suitable for high power applications in an automotive environment. The special design of the YPT terminals and connectors provides a reliable contact at a comprehensive current range with loads >100 A at 80°C, while at the same time the terminal can be applied in high temperature areas. The 2-in-1 design philosophy allows the use of the same terminal for sealed and unsealed applications.

A whole series of male and female connectors and applicable terminals is available. The male and female terminals are designed for standard unsealed & sealed applications in tin-silver (SnAg) and silver (Ag) plating and in a cross-section range from 4.0mm² up to 16.0mm². The female terminals are available for Cu and Al wire crimping.

The connector portfolio contains sealed and unsealed connectors including hybrid versions from 1P 9.5 up to 9P hybrid connectors. The sealed connectors and terminals come with a 2K single wire seal that provides additional rigidity to prevent water ingress even when the wire is routed in a tight angle. The majority of YPT connectors is available with a Connector Position Assurance (CPA) to give additional mating security.

Specification

Validation specification	USCAR-2, USCAR-21, RND5, PSA
Sealing class (only valid for sealed connectors)	S2, S3/IPX9K with cover
Vibration class	V1 (chassis profile / 3G acc. B21 7120)
Temperature class (only valid for sealed connectors)	T3 (-40 – 125°C)
Terminal retention force min. (primary locking) / (primary & secondary locking)	Min. 100 N Min. 150 N
Connector to connector mating force max.	< 75 N
Material connectors	PBT-GF
Material Terminals & Seals	See Table below
Clip feature	Acc. USCAR EWCAP-005-11
Terminal removal tool	See Handling Manual YPES-15-969E
Terminal Crimping	See Handling Manual YPES-15-969E
Terminal Derating	See Product Standard YPES-11-98-148E

YPT 9.5 TERMINALS

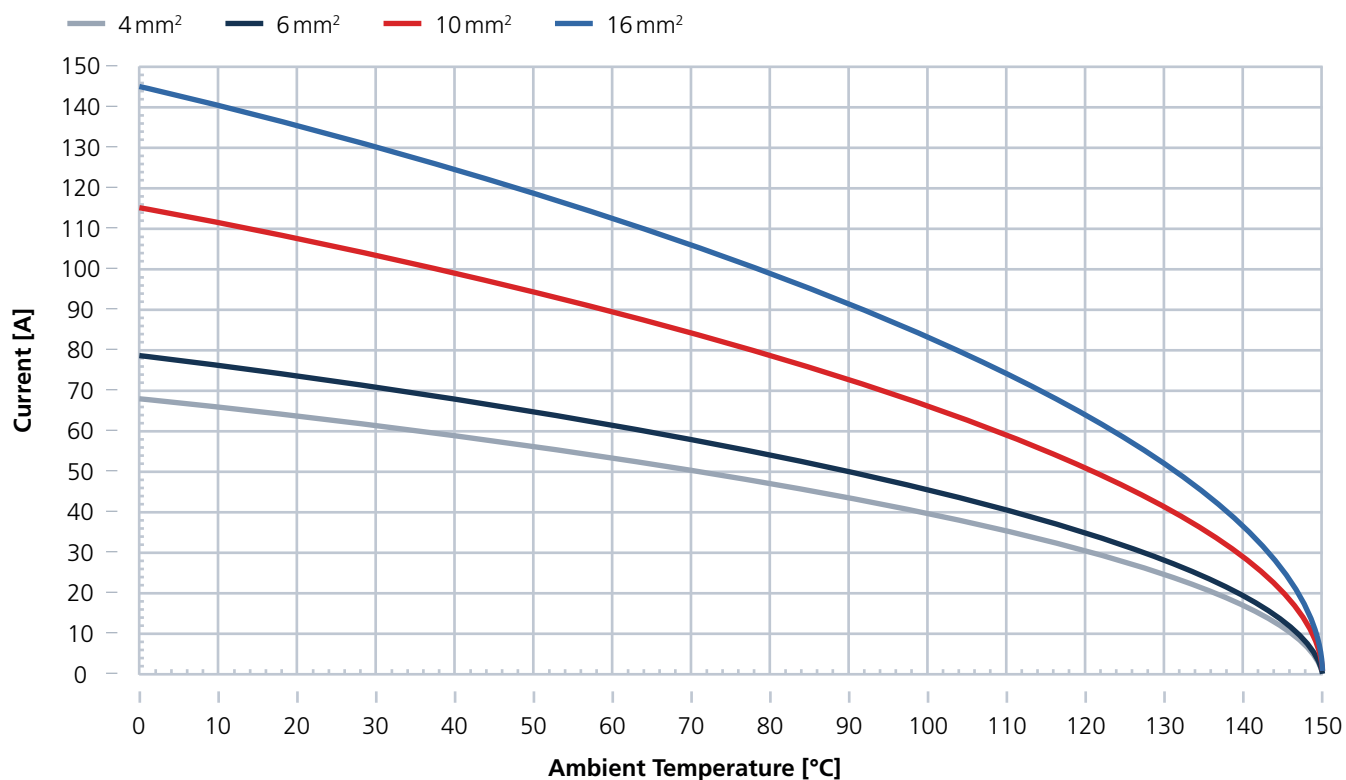
Highlights

- ▶ Male & female terminals for 4 mm² to 16 mm² in SnAg or Ag plating
- ▶ High current capabilities in high temperature applications



Derating Diagram 9.5 YPT Terminal System (Tin-Silver Plating)

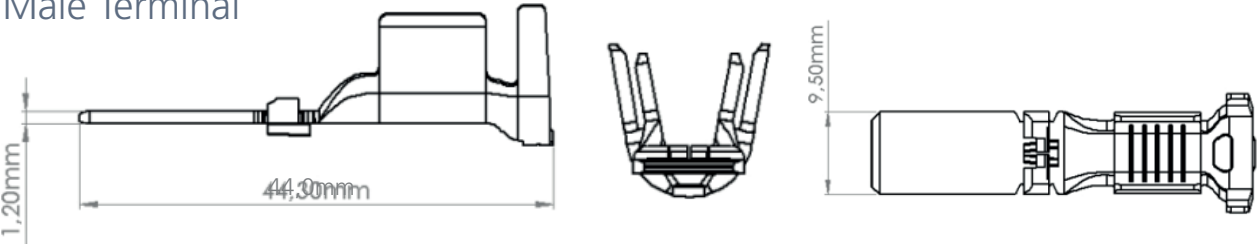
(All curves are for a single circuit in open air, derated to 80 % of base curve) Tested according DIN EN 60512-5-2



For reference only, please see product standard YPES-11-98-148E or datasheet 41104-004 for full details

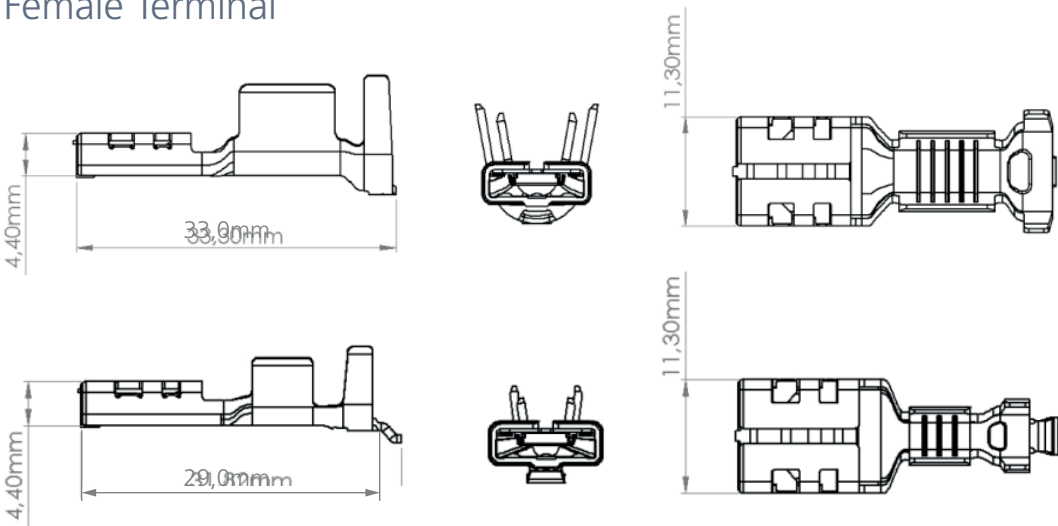
YPT 9.5 MM TERMINALS

Male Terminal



Part Number	Application	Tab Size	Wire Range [mm²]	Material	Plating
7114-5623-02	Sealed / Unsealed	9.5 x 1.2 mm	10.0 - 16.0	CuSn	Tin-Silver
7114-7474-02	Sealed	9.5 x 1.2 mm	4.0 - 6.0	CuSn	Tin-Silver
7114-5623-06	Sealed	9.5 x 1.2 mm	10.0 - 16.0	CuNiSi	Silver
7114-7474-06	Sealed	9.5 x 1.2 mm	4.0 - 6.0	CuNiSi	Silver

Female Terminal



Part Number	Applicable Tab Size	Material	Plating	Application Cu wire	Wire Range Cu wire [mm²]	Application Al wire	Wire Range Al wire [mm²]
				Standard length		Standard length	
7116-5625-02	9.5 x 1.2mm	CuNiSi / Stainl. Steel	Tin-Silver	Sealed / Unsealed	10-16	Sealed / Unsealed	16
7196-3329-02			Tin-Silver	-	-	Sealed / Unsealed	12
7196-1522-02			Tin-Silver	Sealed	8	Sealed Sealed / Unsealed	8 10
7116-7473-02			Tin-Silver	Sealed	4-6	Sealed	6
7116-5625-06			Silver	Sealed / Unsealed	10-16	-	-
7116-7473-06			Silver	Sealed	4-6	-	-
				Short length		Short length	
7116-7570-02			Tin-Silver	Unsealed	4-6	Unsealed	6
7116-5626-06			Silver	Sealed	10	-	-
7116-7570-06			Silver	Unsealed	4-6	-	-
(7116-7068-02)	9.5 x 0.8mm		Tin-Silver	Sealed	4-6	-	-

YPT 9.5 MM SINGLE WIRE SEALS

Part Number	Type	Color	Applicable Wire Diameter [mm]	Material	Shape
7158-3034-50*	Standard Single Wire Seal	Red	3.4 - 3.7	Silicone Rubber	
7158-3035*		Natural	4.0 - 4.3		
7158-3713-70	2K Seal with Support Ring	Yellow	5.3 - 6.5	Silicone Rubber & PBT-GF	
7158-3673-90		Turquoise	7.3 - 8.3		
7158-3672-50		Light Pink	6.2 - 7.3		
7172-5643-50		Red	4.6 - 5.0		
7172-5184		Natural	3.4 - 4.3		
7158-3268-70		Yellow	5.3 - 6.0		
7158-3266-50	2K Seal with Support Ring, Reduced Pitch	Red	3.4 - 3.7		
7158-3267		Natural	4.0 - 4.4		

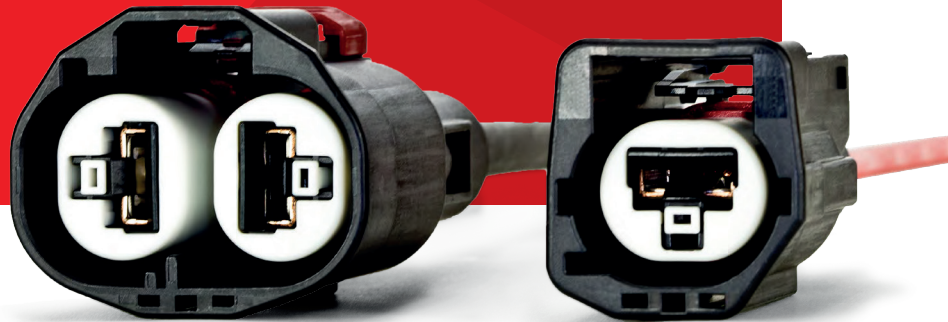
* applicable for terminal 7116-7068-02 only



YPT 9.5 CONNECTORS

Highlights

- For high power applications such as steering or cooling; suitable for loads > 100 A at 80°C ambient temperature
- Hybrid connectors available
- Optional CPA
- Mechanical and color codes available



Sealed Connector Part Numbers

Code	No. of Poles	Male connector	Female Connector without CPA	Female Connector with CPA	Image
A	1P	N/A	7287-2914-30	N/A	
B	1P		7287-2913-10		
A	1+1P	N/A	N/A	7287-8211-30	
B	1+1P			7289-7783-40	
A	2P	N/A	7287-1991-30	7287-1990-30	
B	2P		7287-1993-40	7287-1992-40	
A	2P	N/A	7283-2918-10	N/A	
A	2P		7283-2918-30		
B	2P		7298-4790-40		
A	2P	7286-1399-80	7287-1405-80	7289-7639-80	
B	2P	7286-1402-80	7287-1408-80	7289-7640-80	
A	3P (2x9.5+1x1.5)	7286-1398-10	7287-1404-10	7289-7641-10	

Code	No. of Poles	Male connector	Female Connector without CPA	Female Connector with CPA	Image
B	3P (2x9.5+1x1.5)	7286-1401-10	7287-1407-10	7289-7642-10	
A	4P (2x9.5+2x1.5)	7286-1397-30	7287-1403-30	7289-7643-30	
B	4P (2x9.5+2x1.5)	7286-1400-30	7287-1406-30	7289-7644-30	
A	9P (3x9.5+6x0.64)	See header section	7289-9248-30 Lever option 2*	N/A	 Lever option 1*
A	9P (3x9.5+6x0.64)		7289-9123-30 Lever option 1*		
B	9P (3x9.5+6x0.64)		7289-9249-10 Lever option 2*		
B	9P (3x9.5+6x0.64)		7289-9317-10 Lever option 1*		

* **Lever option 1:** Left-hand side lever orientation

Lever option 2: Right-hand side lever orientation

Unsealed Connector Part Numbers

Code	No. of Poles	Male connector	Female Connector without CPA	Female Connector with CPA	Image
A	2P	N/A	7287-9042-30	N/A	
B	2P		7287-9043-60		
A	2P	7288-8751-30	7289-8737-30	7289-8732-30	

Sealed Header Part Numbers

No. of Poles	Male connector	Female Connector without CPA	Female Connector with CPA	Image
18P (6x9.5+12x0.64)	7288-9125-30	7289-9248-30 (3x9.5+6x0.64)	N/A	
		7289-9123-30 (3x9.5+6x0.64)		
		7289-9249-10 (3x9.5+6x0.64)		 VSM header
		7289-9137-10 (3x9.5+6x0.64)		

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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 Technical Sales Support team.



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Quotation



Sample Order



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