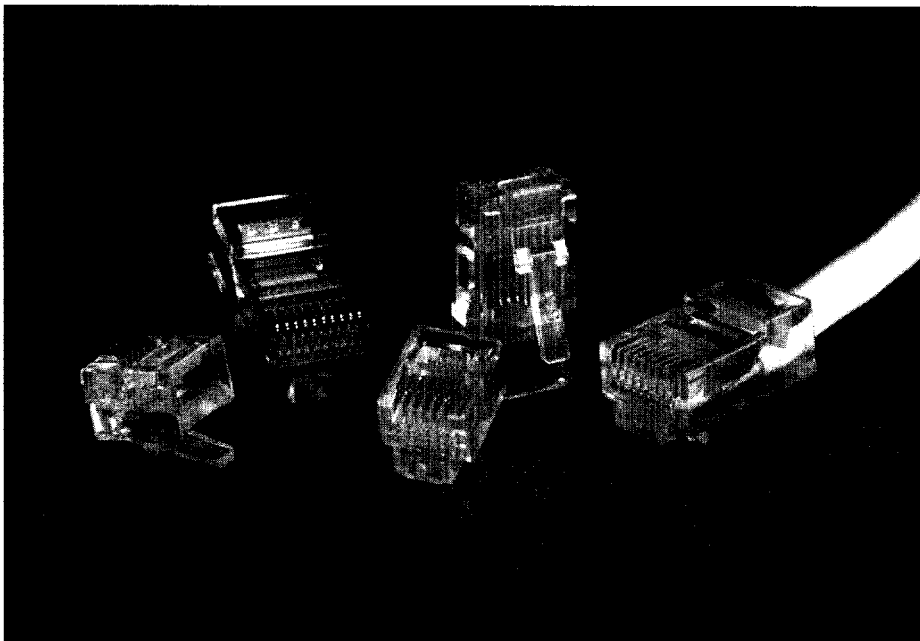


Standard-Performance Plugs Unshielded

30 Series

For Commonly Ordered Parts See Page 106

Features/Benefits



The 30 Series unshielded modular plugs offer superior performance for voice, data, and high-speed networking applications. With mirror-smooth contact surfaces and locking strain relief, 30 Series plugs deliver an optimum number of mating cycles.

- Designed for easy termination and assembly
- Ideal for datacom and mobile communication applications
- Electropolished contacts for optimum durability
- Available with 4 to 10 positions, selectively loaded
- Optional wire management systems provide simple termination of twisted-pair cable
- Dual-point insulation-displacing contacts terminate 28 to 24 AWG stranded and solid conductors
- Locking strain relief for maximum pull strength
- Selective or double-selective contact plating styles with plating options of 6 [.152 μm], 15 [.381 μm], 30 [.762 μm], or 50 [1.27 μm] microinches gold
- Numerous keying options
- Three cable openings
- Comprehensive offering of hand and production tools for easy termination

Specifications

Stewart Product Specification Number: PR007-01

Materials

Jack Housing: UL 94V-0-rated polycarbonate

Contacts: Copper alloy

Contact Plating: Selective gold plate

Electrical Characteristics

Current Rating: 1.5 A (maximum) @ 25° C

Voltage Rating: 150 VAC (maximum)

Low-Level Contact Resistance: 20 m Ω (maximum) allowable change at FCC specifications (using Stewart Connector jack)

Dielectric Withstanding Voltage: 1 min. (60 Hz) 1000 VDC contact to contact

Insulation Resistance: 500 M Ω (minimum)

Mechanical Characteristics

Plug Tolerances and Dimensions:

Compliant with FCC requirements

Environmental Characteristics

Operating Temperature: -40° C to 85° C

Approvals/Certifications

UL Approval

File Number E132408



DUXR2

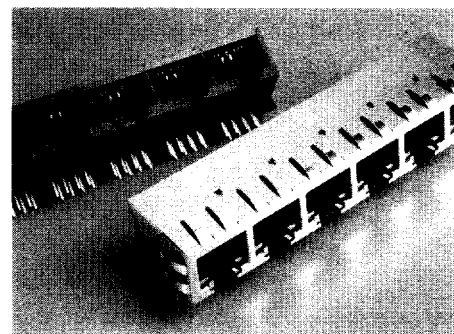
Communication Circuit Accessories—Component

DUXR8

Communication Circuit Accessories

Certified for Canada—Component

Meets requirements of FCC Part 68.5 when plated with 50 [1.27 μm] microinches of gold

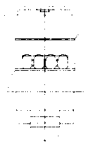


For optimum performance use Stewart plugs and jacks. See page 37 for 66 Series multiport harmonica jacks.

• Unshielded

Variations

Cable Openings



Standard Back for flat/oval cable

- 4-position .110 [2.79]
- 6-position .103 [2.62]
- 8-position .142 [3.61]



Radius Back (R) for round cable

- 4-position .135 [3.42]
- 6-position .135 [3.42]
- 8-position .172 [4.37]
- 10-position .172 [4.37]

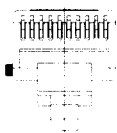


Open Back (OB) for oversized cable

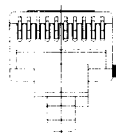
- 4-position .144 [3.66]
- 6-position .144 [3.66]
- 8-position .190 [4.83]

Keying Options

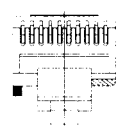
K1-Key



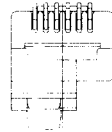
K2-Key



RMK4-Key

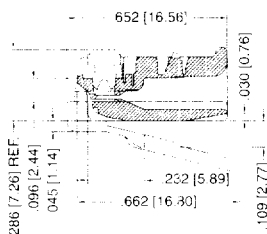


OST (MMJ)



- Fill
- ▨ Cutout

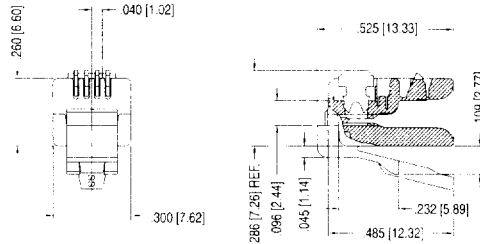
Special Length



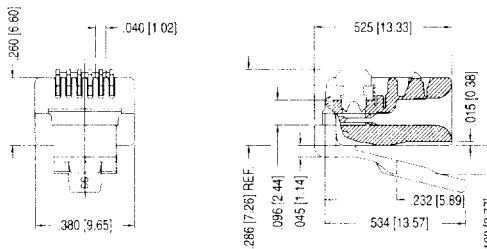
Longer body is ideal for over molding. Provides more surface area for disconnect/reconnect.

For Commonly Ordered Parts See Page 106

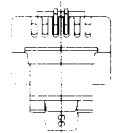
Four-Contact, Four-Position Unshielded



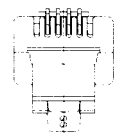
Six-Contact, Six-Position Unshielded



Two-Contact, Six-Position



Four-Contact, Six-Position



Quick Reference Chart

Description				Options						
Series	Contacts Inserted	Contact Positions	Keying Options				Special* Length (.652)	Flexible* Strain Relief Boot	Wire Management* Systems	
			K1	K2	RMK4	OST (MMJ)			Mgmt. Bar	Load Bar
30	3	3								
30	4	4								
30	2	6				●	●			
30	4	6				●	●			
30	6	6				●	●			
30	8	8	●	●				●	●	●
30	10	10	●	●	●			●	●	

* Consult Stewart for specific details.

† Typical applications.

Note: Configurations shown are the most common for typical applications.

For availability of other configurations not listed, consult Stewart.

All dimensions are in inches with metric values in brackets.

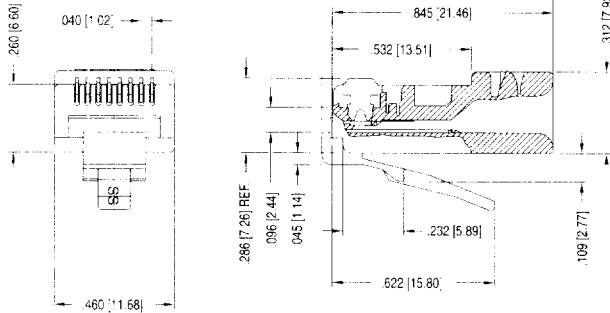
Standard-Performance Plugs

• Unshielded

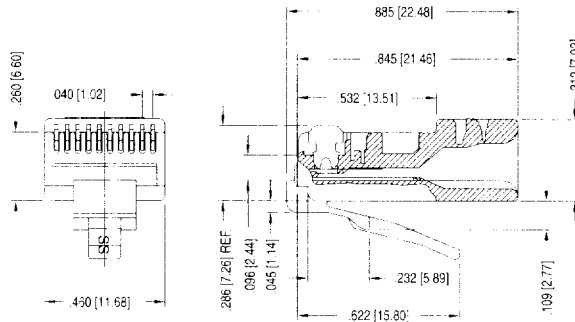
30 Series

For Commonly Ordered Parts See Page 106

Eight-Contact,
Eight-Position
Unshielded



Ten-Contact,
Ten-Position
Unshielded



Part Number Description

EXAMPLE: 940 - 30 - SP - 30 8 8 R - K1 - X

Contact styles

- 940 for solid or stranded conductors
- 937 for stranded conductor

Plating options (microinches Au)

- Leave blank for standard 50
- 06, 15, or 30 - Optional

Plating styles

- SP - Selective plate
- DS - Double selective plate

Series number

Other options (consult Stewart)

Keying options

- K1, K2, RMK4, OST (MMJ)

Cable openings

- Leave blank for standard back opening
- R - radiused back
- OB - open back

Number of contact positions

- 4, 6, 8, or 10

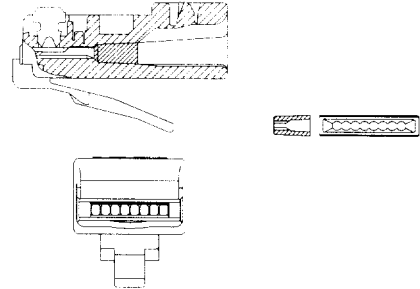
Number of contacts inserted

- 2, 4, 6, 8, or 10

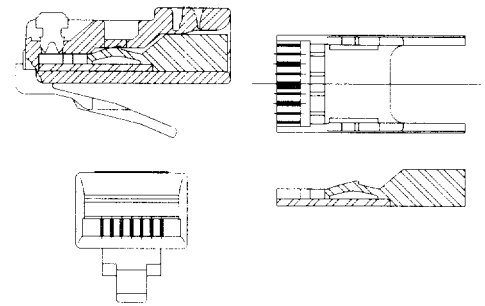
Variations

Management Systems

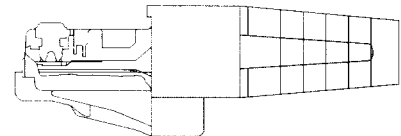
Management Bar



Load Bar



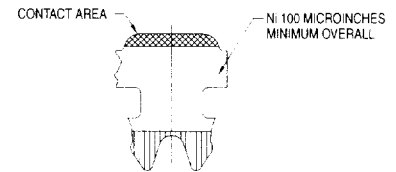
Flexible Strain Relief Boot*



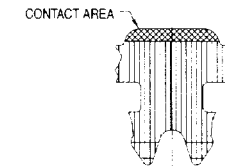
*Contact factory for strain relief part numbers and colors.

Plating Styles

Double Selective Plate (DS)



Selective Plate (SP)



INDICATES PLATING ON TOP SURFACE. (AVAILABLE IN 50 OR 30 μIN. Au IN DS STYLE AND 50, 30, 15 AND 6 μIN. Au IN SP STYLE. BOTH WITH 3 μIN. FLASH UNDERPLATING.)

INDICATES PLATING AREA ON BOTTOM SURFACE (AVAILABLE IN 3 MICROINCHES Au ONLY, BOTH SIDES.)

Note: For information on tooling, see pages 125-130. All dimensions are in inches with metric values in brackets.

See Pages 125-130 for Termination Equipment

Series 30 - Standard-Performance Unshielded Plugs Commonly ordered parts:

Part Number	Contacts	Positions	Description
940-SP-014-3033R-ST	3	3	Radius back for round cable
940-SP-3044	4	4	Standard back for flat/oval cable
940-SP-3044R	4	4	Radius back for round cable
940-SP-3044-OB	4	4	Open back for oversized cable
940-SP-3026-4	2	6	Standard back for flat/oval cable
940-SP-3046	4	6	Standard back for flat/oval cable
940-SP-3046R	4	6	Radius back for round cable
940-SP-3046-OB	4	6	Open back for oversized cable
940-SP-3066	6	6	Standard back for flat/oval cable
940-SP-3066R	6	6	Radius back for round cable
940-SP-3066-OB	6	6	Open back for oversized cable
940-SP-3088	8	8	Standard back for flat/oval cable
940-SP-3088R	8	8	Radius back for round cable
940-SP-3088-OB	8	8	Open back for oversized cable
940-SP-3088-031	8	8	Standard back for flat/oval cable, conductors with maximum OD of .031 [.787]
940-SP-3088R-031	8	8	Radius back for round cable, conductors with maximum OD of .031 [.787]
940-SP-3088R-A133	8	8	Radius back for round cable, conductors with maximum OD of .040 [1.02]
940-SP-301010R	10	10	Radius back for round cable

Note: The "940" in the part numbers above designates a blade style that can terminate both stranded and solid conductors. Unless noted, maximum conductor C.D. is .037".