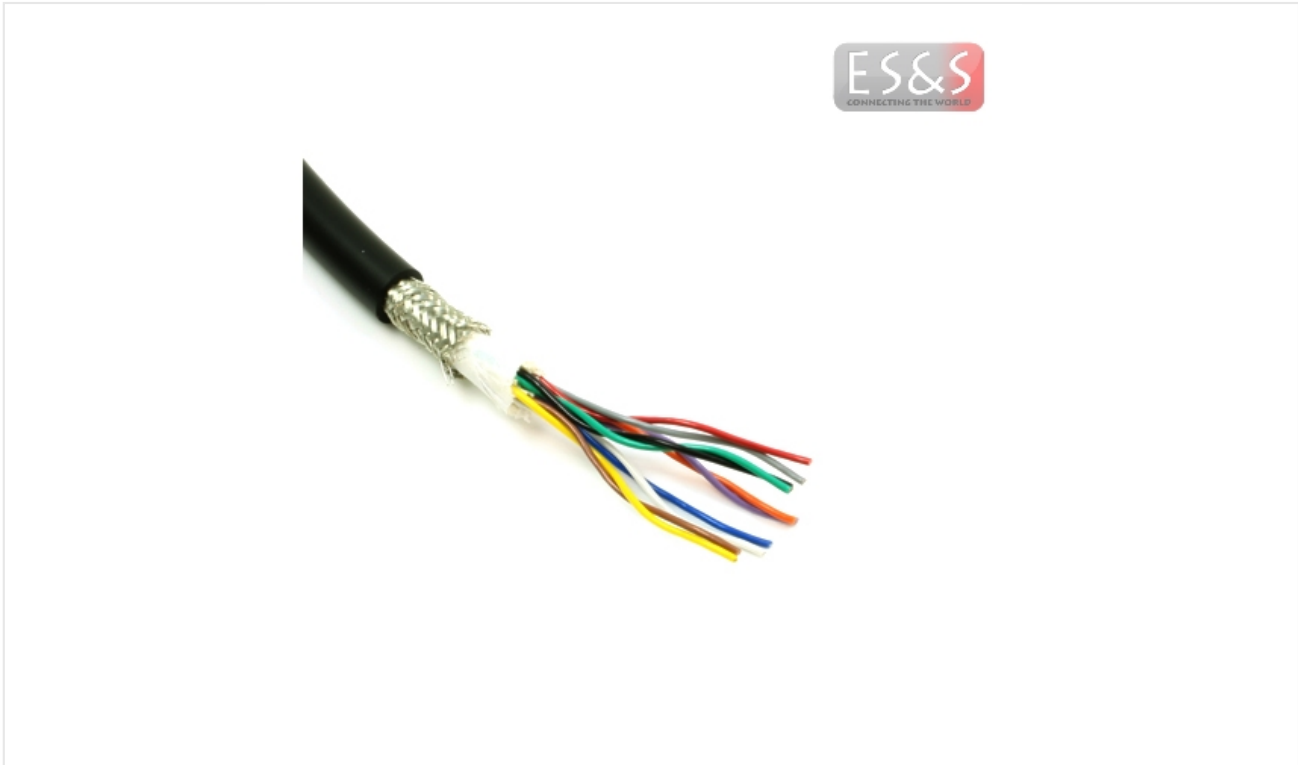


## DATENBLATT

# Hoch flexible Roboter Leitung ORP Serie



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**BESCHREIBUNG**

Dieses Hochleistungs-I/O-ORP-Kabel wird beispielsweise bei Robotersteuerungen eingesetzt, da sie eine hoch flexible Verbindung ermöglicht. Der Feinstleiter ist eine Litze mit einem geringen Durchmesser, so dass eine sehr hohe Flexibilität erreicht werden kann. Dadurch wird das Kabel für die Verwendung bei bewegten Teilen an Robotern und anderen Maschinen genutzt (schleppkettentauglich). Dieses Kabel kann auch dort eingesetzt werden, wo Torsionskräfte (Drehbewegungen) auftreten.

Die äußere Kabelschicht besteht aus öl- und hitzebeständigem PVC Material. Dieses Produkt ist umweltfreundlich und entspricht ebenfalls der RoHS-Richtlinie (Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten).

Die genauen Kabeleigenschaften der ORP Kabelserie entnehmen Sie bitte der beigefügten Tabelle (siehe rechts, unter: weitere Bilder).

**TECHNISCHE DATEN:**

- AWG25 bis AWG30
- geschirmt und ungeschirmt
- 300 V / 600 V
- sehr hohen Biegezyklus (100 Millionen)
- sehr resistent gegen Torsionskräfte (Drehbewegungen)
- öl- und hitzebeständigem PVC oder Elastomer Material
- UL2464, UL11502, UL2586

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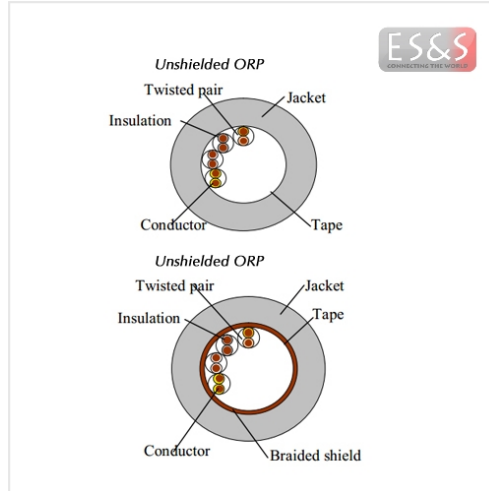
## Hoch flexible Roboter Leitung ORP Serie

Vergleichstabelle ORP Leitungen			
	ORP	ORP-I	ORP-D
Querschnitte	AWG25	AWG25	
	AWG23	AWG23	
	AWG21	AWG21	AWG21
		AWG19	AWG19
		AWG17	AWG17
		AWG15	AWG15
		AWG12	AWG12
		AWG10	AWG10
UL Style	UL2464	UL11502	UL2586
Spannung	300V	600V	600V
Temperatur	-10°C bis 80°C	-10°C bis 105°C	-10°C bis 105°C
geschirmt	Ja	Nein	Ja
Torsionsfähig	Ja	Nein	Ja
Einzelader	Nein	Ja	Nein
twisted Pair	Ja	Nein	Nein
Aderanzahl	2/4/6/8/10/12/16/20/30/40	1	2/3/4/5/6/8/10

Der Kabelaußendurchmesser ist abhängig von der Anzahl der Feinstleiter und ob die Leitung geschirmt oder ungeschirmt benötigt wird.

# Hoch flexible Roboter Leitung ORP Serie

**BILDER**



Positioning in relation to other ORP series

Series	Application	Series summary	Movement durability			Thickness	Rating
			Swing-bending	Sliding	Twisting		
ORP-TW Cables	For controllers (torsion-resistant type)	Robot cables designed specifically for durability against twisting motion.	★	★★	★★★	★★	105°C 300V
ORP Cables	For controllers (standard type)	Basic robot cables designed to accommodate all robot movements (sliding, swinging, twisting).	★★	★★★	★★	★★	80°C 300V
ORP Slim Cables	For controllers (small-diameter type)	Top-class small-diameter robot cables based on the ORP cable series, with diameter and weight reduced by approximately 20%.	★★	★★★	★★	★★★	80°C 300V
ORP-D Cables	For power supply	Power-supply robot cables with a voltage rating of 600 V, but a diameter as thin as that of 300V-rated cables.	★★	★★★	★★	★★	105°C 600V
ORP-I Series	For internal wiring in devices	Insulated core cables for wiring in moving parts within devices.	★★	★★	★★	★★★	105°C 600V

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