

Sub-D angled at 90° with press-in terminals for Harting

1. GENERAL

1.1 Application

This 'Engineering obligation for delivery' describes the Sub-D connector angled at 90° with press-in terminals for 'Harting'.

1.2 Types

These are the existing types:

- Pin and Female connectors: 9, 15, 25 and 37 contacts
- Performance level: 2
- Mounting height 7.3mm (standard) and 3.6mm (Euro-style)
- Mounting on the PCB over press-in tabs
- Grounding via metal inserts
- connector mounting: - thread M3 or 4-40 UNC
 - stud bolt M3 or 4-40 UNC

1.3 Ordering information

V 2 3 5 2 9 - + 1 4 0 * - + 2 * *

Mounting height

R = mounting height 7.3mm
S = mounting height 3.6mm

Connector mounting

2 = Thread M3
3 = Thread 4-40 UNC
4 = Stud bolt M3
5 = Stud bolt 4-40 UNC

Connector type

B = Female connector
C = Pin connector with shield indentation

No. of contacts

09 = 9-contacts
15 = 15-contacts
25 = 25-contacts
37 = 37-contacts

1.4 Cross reference list

Siemens part number	Harting part number with index	Tyco part number
V23529-R1402-B209	09 66 158 6601 01	7-1393481-6
V23529-R1403-B209	09 66 158 6602 01	8-1393481-7
V23529-R1402-B215	09 66 258 6601 01	7-1393481-7
V23529-R1403-B215	09 66 258 6602 01	8-1393481-8
V23529-R1402-B225	09 66 358 6601 01	7-1393481-8
V23529-R1403-B225	09 66 358 6602 01	
V23529-R1402-B237	09 66 458 6601 01	
V23529-R1403-B237	09 66 458 6602 01	
V23529-R1402-C209	09 66 168 6801 01	8-1393481-0
V23529-R1403-C209	09 66 168 6802 01	9-1393481-1
V23529-R1402-C215	09 66 268 6801 01	8-1393481-1
V23529-R1403-C215	09 66 268 6802 01	9-1393481-2
V23529-R1402-C225	09 66 368 6801 01	8-1393481-2
V23529-R1403-C225	09 66 368 6802 01	
V23529-R1402-C237	09 66 468 6801 01	8-1393481-3
V23529-R1403-C237	09 66 468 6802 01	
V23529-S1402-B209	09 66 158 6605 01	8-1393482-2
V23529-S1403-B209	09 66 158 6606 01	
V23529-S1402-B215	09 66 258 6605 01	8-1393482-3
V23529-S1403-B215	09 66 258 6606 01	
V23529-S1402-B225	09 66 358 6605 01	8-1393482-4
V23529-S1403-B225	09 66 358 6606 01	9-1393482-2
V23529-S1402-B237	09 66 458 6605 01	8-1393482-5
V23529-S1403-B237	09 66 458 6606 01	
V23529-S1402-C209	09 66 168 6805 01	8-1393482-6
V23529-S1403-C209	09 66 168 6806 01	9-1393482-4
V23529-S1402-C215	09 66 268 6805 01	8-1393482-7
V23529-S1403-C215	09 66 268 6806 01	
V23529-S1402-C225	09 66 368 6805 01	8-1393482-8
V23529-S1403-C225	09 66 368 6806 01	
V23529-S1402-C237	09 66 468 6805 01	8-1393482-9
V23529-S1403-C237	09 66 468 6806 01	9-1393482-7
V23529-R1402-W511	09 66 158 6601 76	8-1393481-4
V23529-R1402-W512	09 66 168 6801 76	8-1393481-5
V23529-R1402-W513	09 66 458 6601 76	8-1393481-6

1.5 Documents

	Siemens drawing number	Tyco drawing number
Simplified drawing	V23529-R****-B***-02-7427	2-1393481-1
Simplified drawing	V23529-R****-C***-02-7427	2-1393481-5
Simplified drawing	V23529-S****-B***-02-7427	1-1393482-2
Simplified drawing	V23529-S****-C***-02-7427	1-1393482-4

2. TECHNICAL CHARACTERISTICS

2.1 Mechanical and electrical characteristics

2.1.1 General

These connectors are designed according to the test requirements specified in the standard CECC 75 301 - 802 (Issue 1 of 1994) and DIN 41652.

2.1.2 Dimensions

see the corresponding documents (Simplified drawings)

2.1.3 Materials and plating

Part name	Material	Plating
Pin contact	CuSn8	Min. 1.8µm Ni / $\bar{x} - 2s \geq 0.5\mu\text{mAu}$ Min. 1.8µm Ni / 0.4 ... 1.5µm SnPb90/10
Female contact	CuSn6	Min. 1.8µm Ni / $\bar{x} - 2s \geq 0.76\mu\text{mAu}$ Min. 0.8µm Ni / 0.4 ... 1.5µm SnPb90/10
Insulator part	PBTP 20% glass-fibre Colour : RAL 9005 UL94 V-0	
Press-in insulator part	PCT 30% glass-fibre Colour : RAL 9005 UL94 V-0	
Grounding insert	Steel	Cu/Ni/SnPb90/10
Shell	Steel	Cu/Ni/Sn
Stud bolt	Steel	Cu/Ni

2.2 Mechanical and electrical characteristics

2.2.1 Temperature range

-55°C to 125°C

2.2.2 Corrosion, industrial atmosphere

according DIN 41652

10 days SO₂

4 days H₂S

3. PRODUCT MARKING

all the product markings (except contact numbering) are wipe proof printed on the black insulator part, according DIN IEC 68 T2-45 (colour: blue):

3.1 Normal marking

(Harting part numbers with index '00')

'Harting' company logo according HWN 090.00.90, height : 2.5mm

'UL'-logo (after UL permission only); height 2.5mm

Datum code : according DIN IEC 62 Pt. 5.1; height : 1.4mm

Year	Character
1998	K
1999	L
2000	M
2001	N
2002	P
2003	R
2004	S

Month	Character
January	1
February	2
March	3
April	4
May	5
June	6
July	7

2005	T
2006	U
2007	V
2008	W
...	...

August	8
September	9
October	O
November	N
December	D

Contact numbering moulded in the insulator part.

3.2 Specific marking

(Harting part numbers with index '76')

'Harting' company logo according HWN 090.00.90, height: 2.5mm

Harting part number inscription; height 1,4mm:

Siemens part number	Connector marking	Tyco part number
V23529-R1402-W511	58 6601	8-1393481-4
V23529-R1402-W512	68 6801	8-1393481-5
V23529-R1402-W513	09 66 458 6601	

Datum code: according DIN IEC 62 Pt. 5.1; height: 1.4mm

contact numbering moulded in the insulator part.

4. PACKAGING AND LABELLING

4.1 Packaging

- 9, 15 and 25 contacts : 20 pieces pro blister (Harting blister)
- 37 contacts : 10 pieces pro blister

5 blisters in 1 cardboard box (Harting- cardboard box)

Harting part numbers:

- blister for 9 contacts 4601363
- blister for 15 and 25 contacts 4601663
- blister for 37 contacts 4601463
- cardboard box 9 and 37 contacts 4601563
- cardboard box 15 and 25 contacts 4601763





4.2 Labelling

every cardboard box has a label with the following information

- HARTING (text)
- Harting order number (text and bar-code)
- quantity (text and bar-code)
- "Baunummer" (text and bar-code)
- traceability code (text)

Barcode: code 39 according AIM/USS 39

Example:

HARTING		HF:00001
		
IP 09 66 158 6601 01		
	Q	000100 STCK
	Z	75701896
	1T	K3

5. COMMITMENT

Product and process changes shall be notified in written form. The changes, which affect the form, fit and function of the product have to be agreed before any delivery of the product.