Surface Mount Fuse, 1.6 x 0.8 mm, Super-Quick-Acting FF, 32 VAC, 63 VDC



Exemplary part photo depending on part no.

# UL 248-14 · 63 VAC · 63 VDC · Super-Quick-Acting FF

See below:

**Approvals and Compliances** 

#### **Description**

- UL characteristic
- Low melting I2t-values, fast interruption
- Impermeable to potting compound

#### **Applications**

- Secondary Protection DC and AC
- Circuits without inrush
- Semiconductor protection

#### References

**Packaging Details** 

#### Weblinks

pdf datasheet, html-datasheet, General Product Information, Packaging details, Distributor-Stock-Check, Detailed request for product, Microsite

Technical Data	
Rated Voltage	63 VAC, 63 VDC
Rated current	0.5 - 5A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	general Ni/Sn, for 1A version Ni/Au
Unit Weight	0.0016 g
Storage Conditions	0°C to 60°C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
	Soldering Profile
Solderability	245°C / 3 sec acc. to IEC 60068-2-58,
	Test Td
Resistance to Soldering Heat	260 +0/-5°C / 30 sec acc. to IPC/JE-
	DEC J-STD-020D, Level 1
Moisture Resistance Test	MIL-STD-202, Method 106E
	(50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A
	(Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7
	>100 MΩ (between leeds and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1
	(acc. to EIA/IS-722, Test 4.12)

#### **Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 134485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

#### **Approvals**

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: USF 0603

Approval Logo Certificates **Certification Body** Description **UL Approvals** UI UL File Number: E41599 

## **Product standards**

Product standards that are referenced

Organization
Design
Standard
Description

UL 248-14
Low voltage fuses - Part 14: Additional fuses

Designed according to CSA22.2 No. 248.14 Low-Voltage Fuses - Part 14: Supplemental Fuses

## **Application standards**

Application standards where the product can be used

OrganizationDesignStandardDescriptionIECDesigned for applications acc.IEC/UL 60950IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

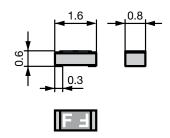
#### **Compliances**

The product complies with following Guide Lines

Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
ROHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
<b>©</b>	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
Halogen Free ##	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

# Dimension [mm]

**H** 1.6 mm





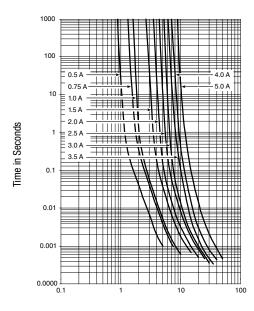
Soldering pads

## **Pre-Arcing Time**

Rated Current In	1.0 x In min.	2.0 x ln max.

0.5 A - 5 A 4 h 60 s

## **Time-Current-Curves**



**Current in Amperes** 

## **All Variants**

Rated Current (A)         Rated Volcy age (VAC)         Rated Volcy (Age)         Marking (PAC)         Breaking (PAC) (Age)         Voltage Drop (MIN)         Cold Resince (MIN)         Melting (PLR)         Number in typ. (Ass)         Add 20113.11           0.05         32         63         G         1)         110         120         0.05         3412.0114.24           0.75         32         63         H         1)         110										
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0.5 32 63 F 1) 125 225 0.025 ● 3412.0113.26  0.75 32 63 G 1) 110 120 0.05 ● 3412.0114.11  0.75 32 63 G 1) 110 120 0.05 ● 3412.0114.22  0.75 32 63 G 1) 110 120 0.05 ● 3412.0114.24  0.75 32 63 G 1) 110 120 0.05 ● 3412.0114.24  0.75 32 63 G 1) 110 120 0.05 ● 3412.0114.26  1 32 63 H 1) 110 95 0.06 ● 3412.0115.11  1 32 63 H 1) 110 95 0.06 ● 3412.0115.22  1 32 63 H 1) 110 95 0.06 ● 3412.0115.24  1 32 63 H 1) 110 95 0.06 ● 3412.0115.24  1 32 63 H 1) 110 95 0.06 ● 3412.0115.24  1 32 63 H 1) 110 95 0.06 ● 3412.0115.24  1 32 63 K 1) 65 37.5 0.15 ● 3412.0117.26  1.5 32 63 K 1) 65 37.5 0.15 ● 3412.0117.11  1.5 32 63 K 1) 65 37.5 0.15 ● 3412.0117.22  1.5 32 63 K 1) 65 37.5 0.15 ● 3412.0117.22  1.5 32 63 K 1) 65 37.5 0.15 ● 3412.0117.22  2 32 32 N 2) 65 28 0.2 ● 3412.0119.11  2 32 32 N 2) 65 28 0.2 ● 3412.0119.24  2 32 32 N 2) 65 28 0.2 ● 3412.0119.22  2 32 32 N 2) 65 28 0.2 ● 3412.0119.24	3412.0113.22	•	0.025	225	125	1)	F	63	32	0.5
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0.75	3412.0113.26	•	0.025	225	125	1)	F	63	32	0.5
0.75       32       63       6       1)       110       120       0.05       ■ 3412.0114.24         0.75       32       63       G       1)       110       120       0.05       ■ 3412.0114.26         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.11         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1.5       32       63       K       1)       65       37.5       0.06       ■ 3412.0115.26         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.21         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       32 <td< td=""><td>3412.0114.11</td><td>•</td><td>0.05</td><td>120</td><td>110</td><td>1)</td><td>G</td><td>63</td><td>32</td><td>0.75</td></td<>	3412.0114.11	•	0.05	120	110	1)	G	63	32	0.75
0.75       32       63       G       1)       110       120       0.05       ■ 3412.0114.26         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.11         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.22         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0115.26         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       32	3412.0114.22	•	0.05	120	110	1)	G	63	32	0.75
1       32       63       H       1)       110       95       0.06       ■ 3412.0115.11         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.22         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.26         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.26         2       32       32       N       2)       65       28       0.2       ■ 3412.0117.26         2       32       32       N	3412.0114.24	•	0.05	120	110	1)	G	63	32	0.75
1       32       63       H       1)       110       95       0.06       ◆ 3412.0115.22         1       32       63       H       1)       110       95       0.06       ◆ 3412.0115.24         1       32       63       H       1)       110       95       0.06       ◆ 3412.0115.26         1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.11         1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.26         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.21         2       32       32       N <td>3412.0114.26</td> <td>•</td> <td>0.05</td> <td>120</td> <td>110</td> <td>1)</td> <td>G</td> <td>63</td> <td>32</td> <td>0.75</td>	3412.0114.26	•	0.05	120	110	1)	G	63	32	0.75
1       32       63       H       1)       110       95       0.06       ■ 3412.0115.24         1       32       63       H       1)       110       95       0.06       ■ 3412.0115.26         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.11         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.26         2       32       32       N       2)       65       28       0.2       ■ 3412.0119.21         2       32       32       N       2)       65       28       0.2       ■ 3412.0119.24         2       32       32       N	3412.0115.11	•	0.06	95	110	1)	Н	63	32	1
1       32       63       H       1)       110       95       0.06       ■ 3412.0115.26         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.11         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.26         2       32       63       K       1)       65       37.5       0.15       ■ 3412.0117.26         2       32       32       N       2)       65       28       0.2       ■ 3412.0119.11         2       32       32       N       2)       65       28       0.2       ■ 3412.0119.24         2       32       32       N       2)       65       28       0.2       ■ 3412.0119.24         2       32       32       32       N       2)       65       28       0.2       ■ 3412.0119.24         2       32       32 <t< td=""><td>3412.0115.22</td><td>•</td><td>0.06</td><td>95</td><td>110</td><td>1)</td><td>Н</td><td>63</td><td>32</td><td>1</td></t<>	3412.0115.22	•	0.06	95	110	1)	Н	63	32	1
1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.11         1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.26         2       32       63       K       1)       65       37.5       0.15       ● 3412.0117.26         2       32       32       N       2)       65       28       0.2       ● 3412.0119.11         2       32       32       N       2)       65       28       0.2       ● 3412.0119.22         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.26         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.21         2.5       32       32       0	3412.0115.24	•	0.06	95	110	1)	Н	63	32	1
1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.22         1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.26         2       32       32       N       2)       65       28       0.2       ● 3412.0119.11         2       32       32       N       2)       65       28       0.2       ● 3412.0119.22         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       0       2)       65       28       0.2       ● 3412.012.011         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.21         2.5       32       32       0       2)	3412.0115.26	•	0.06	95	110	1)	Н	63	32	1
1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.24         1.5       32       63       K       1)       65       37.5       0.15       ● 3412.0117.26         2       32       32       N       2)       65       28       0.2       ● 3412.0119.11         2       32       32       N       2)       65       28       0.2       ● 3412.0119.22         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       0       2)       65       28       0.2       ● 3412.0119.26         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.11         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.22         2.5       32       32       32       0	3412.0117.11	•	0.15	37.5	65	1)	K	63	32	1.5
1.5       32       63       K       1)       65       37.5       0.15       ◆ 3412.0117.26         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.11         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.22         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.24         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.24         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.24         2       32       32       N       2)       65       28       0.2       ◆ 3412.019.24         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.11         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.24         2.5       32       32       0       2)<	3412.0117.22	•	0.15	37.5	65	1)	K	63	32	1.5
2       32       32       N       2)       65       28       0.2       ● 3412.0119.11         2       32       32       N       2)       65       28       0.2       ● 3412.0119.22         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.26         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.11         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.22         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.22         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.24         2.5       32       32       P       2)       60       17       0.32       ● 3412.0121.11         3       32       32       P	3412.0117.24	•	0.15	37.5	65	1)	K	63	32	1.5
2       32       32       N       2)       65       28       0.2       ● 3412.0119.22         2       32       32       N       2)       65       28       0.2       ● 3412.0119.24         2       32       32       N       2)       65       28       0.2       ● 3412.0119.26         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.21         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.22         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ● 3412.0120.24         2.5       32       32       2       0       2)       60       21.5       0.29       ● 3412.0120.26         3       32       32       P       2)       60       17       0.32       ● 3412.0121.12         3       32       32	3412.0117.26	•	0.15	37.5	65	1)	K	63	32	1.5
2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.24         2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.26         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.21         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.22         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.24         2.5       32       32       P       2)       60       17       0.32       ◆ 3412.0121.21         3       32       32       P       2)       60       17       0.32       ◆ 3412.0121.22         3       32       32       P       2)       60       17       0.32       ◆ 3412.0121.24	3412.0119.11	•	0.2	28	65	2)	N	32	32	2
2       32       32       N       2)       65       28       0.2       ◆ 3412.0119.26         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.11         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.22         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ◆ 3412.0120.26         3       32       32       P       2)       60       17       0.32       ◆ 3412.0121.21         1       3       32       32       P       2)       60       17       0.32       ◆ 3412.0121.22         3       32       32       P       2)       60       17       0.32       ◆ 3412.0121.22         3       32       32       P       2)       60       17       0.32       ◆ 3412.0121.24	3412.0119.22	•	0.2	28	65	2)	N	32	32	2
2.5       32       32       0       2)       60       21.5       0.29       ■ 3412.0120.11         2.5       32       32       0       2)       60       21.5       0.29       ■ 3412.0120.22         2.5       32       32       0       2)       60       21.5       0.29       ■ 3412.0120.24         2.5       32       32       0       2)       60       21.5       0.29       ■ 3412.0120.26         3       32       32       P       2)       60       17       0.32       ■ 3412.0121.21         1       3       32       32       P       2)       60       17       0.32       ■ 3412.0121.22         3       32       32       P       2)       60       17       0.32       ■ 3412.0121.22         3       32       32       P       2)       60       17       0.32       ■ 3412.0121.22         3       32       32       P       2)       60       17       0.32       ■ 3412.0121.24	3412.0119.24	•	0.2	28	65	2)	N	32	32	2
2.5     32     32     0     2)     60     21.5     0.29     ◆ 3412.0120.22       2.5     32     32     0     2)     60     21.5     0.29     ◆ 3412.0120.24       2.5     32     32     0     2)     60     21.5     0.29     ◆ 3412.0120.26       3     32     32     P     2)     60     17     0.32     ◆ 3412.0121.11       3     32     32     P     2)     60     17     0.32     ◆ 3412.0121.22       3     32     32     P     2)     60     17     0.32     ◆ 3412.0121.22       3     32     32     P     2)     60     17     0.32     ◆ 3412.0121.24	3412.0119.26	•	0.2	28	65	2)	N	32	32	2
2.5     32     32     0     2)     60     21.5     0.29     ■ 3412.0120.24       2.5     32     32     0     2)     60     21.5     0.29     ■ 3412.0120.26       3     32     32     P     2)     60     17     0.32     ■ 3412.0121.11       3     32     32     P     2)     60     17     0.32     ■ 3412.0121.22       3     32     32     P     2)     60     17     0.32     ■ 3412.0121.24	3412.0120.11	•	0.29	21.5	60	2)	0	32	32	2.5
2.5     32     32     0     2)     60     21.5     0.29     ● 3412.0120.26       3     32     32     P     2)     60     17     0.32     ● 3412.0121.11       3     32     32     P     2)     60     17     0.32     ● 3412.0121.22       3     32     32     P     2)     60     17     0.32     ● 3412.0121.22       3     32     32     P     2)     60     17     0.32     ● 3412.0121.24	3412.0120.22	•	0.29	21.5	60	2)	0	32	32	2.5
3     32     32     P     2)     60     17     0.32     ● 3412.0121.11       3     32     32     P     2)     60     17     0.32     ● 3412.0121.22       3     32     32     P     2)     60     17     0.32     ● 3412.0121.24	3412.0120.24	•	0.29	21.5	60	2)	0	32	32	2.5
3 32 32 P 2) 60 17 0.32 ● 3412.0121.22 3 32 P 2) 60 17 0.32 ● 3412.0121.24	3412.0120.26	•	0.29	21.5	60	2)	0	32	32	2.5
3 32 32 P 2) 60 17 0.32 ● 3412.0121.24	3412.0121.11	•	0.32	17	60	2)	Р	32	32	3
,	3412.0121.22	•	0.32	17	60	2)	Р	32	32	3
3 32 32 P 2) 60 17 0.32 ● 3412.0121.26	3412.0121.24	•	0.32	17	60	2)	Р	32	32	3
	3412.0121.26	•	0.32	17	60	2)	Р	32	32	3

Rated Cur- rent [A]	Rated Voltage [VAC]	Rated Vol- tage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I <sup>2</sup> t 8.0 In typ. [A <sup>2</sup> s] c	Order Number
3.5	32	32	R	2)	50	12.5	0.42 ●	3412.0122.11
3.5	32	32	R	2)	50	12.5	0.42 ●	3412.0122.22
3.5	32	32	R	2)	50	12.5	0.42 ●	3412.0122.24
3.5	32	32	R	2)	50	12.5	0.42 ●	3412.0122.26
4	32	32	S	2)	50	11	0.7 ●	3412.0123.11
4	32	32	S	2)	50	11	0.7 ●	3412.0123.22
4	32	32	S	2)	50	11	0.7 ●	3412.0123.24
4	32	32	S	2)	50	11	0.7 ●	3412.0123.26
5	32	32	T	2)	50	9	1.15 ●	3412.0124.11
5	32	32	T	2)	50	9	1.15 ●	3412.0124.22
5	32	32	T	2)	50	9	1.15 ●	3412.0124.24
5	32	32	Т	2)	50	9	1.15 ●	3412.0124.26

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# **Packaging Unit**

.xx = .11 Blister Tape of 100 pcs. in Plastic Bag

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)

.xx = .24 Blister Tape 25.4 cm Reel (5000 pcs.)

.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

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